EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L2	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L3	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L4	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L5	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L6	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L7	288	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L8	927	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L9	437	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L10	739	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L11	186	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L12	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L13	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L14	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L15	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L16	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L17	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L18	288	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L19	927	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L20	437	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L21	739	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L22	186	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L23	1	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L24	1	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L25	1	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L26	1	"4621099".URPN.	USPAT	OR	ON	2006/04/13 06:32
L27	1	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L28	1	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L29	1	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L30	1	"4621099".URPN.	USPAT	OR	ON	2006/04/13 06:32
L31	2	("4663336").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L32	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L33	78	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L34	71	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L35	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L36	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L37	53	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L38	3	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L39	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L40	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L41	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L42	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32

EAST Search History

L43	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L44	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L45	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L46	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L47	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L48	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L49	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L50	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L51	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L52	78	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L53	71	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L54	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L55	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L56	53	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L57	3	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L58	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L59	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L60	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L61	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L62	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L63	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L64	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L65	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L66	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L67	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L68	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32

EAST Search History

L69	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L70	111	oxamflatin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L71	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L72	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L73	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L74	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L75	339	$pentynoic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L76	472	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L77	472	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L78	585	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L79	585	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L80	690	Histone adj deacetylase	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L81	690	Histone adj deacetylase	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L82	6662	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L83	4516	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L84	17123	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L85	75914	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L86	6662	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L87	4516	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L88	17123	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L89	75914	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L90	2	("6720445").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L91	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L92	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L93	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L94	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L95	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L96	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L97	288	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L98	927	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L99	437	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L100	739	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L101	186	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L102	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L103	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L104	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L105	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L106	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L107	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L108	288	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L109	927	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L110	437	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L111	739	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L112	186	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L113	1	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L114	1	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L115	1	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L116	1	"4621099".URPN.	USPAT	OR	ON	2006/04/13 06:32
L117	1	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L118	1	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L119	1	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L120	1	"4621099".URPN.	USPAT	OR	ON	2006/04/13 06:32
L121	2	("4663336").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L122	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L123	78	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L124	71	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L125	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L126	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L127	53	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L128	3	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L129	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L130	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L131	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L132	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L133	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L134	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L135	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L136	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32

EAST Search History

L137	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L138	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L139	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L140	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L141	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L142	78	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L143	71	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L144	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L145	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L146	53	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L147	3	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L148	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L149	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32

EAST Search History

L150	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L151	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L152	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L153	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L154	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L155	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L156	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L157	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L158	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L159	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L160	111	oxamflatin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L161	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32

EAST Search History

L162	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L163	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L164	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L165	339	$pentynoic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L166	472	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L167	472	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:32
L168	585	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L169	585	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L170	690	Histone adj deacetylase	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L171	690	Histone adj deacetylase	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L172	6662	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:32
L173	4516	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:33
L174	17123	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:33

EAST Search History

L175	75914	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:33
L176	6662	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:33
L177	4516	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/13 06:33
L178	17123	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:33
L179	75914	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/13 06:33

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PASSWORD:
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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS 4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 6	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 7	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS 8	JAN 30	Saved answer limit increased
NEWS 9	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 10	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 12	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 13	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS 14	FEB 28	TOXCENTER reloaded with enhancements
NEWS 15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS 16	MAR 01	INSPEC reloaded and enhanced
NEWS 17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 18	MAR 08	X.25 communication option no longer available after June 2006
NEWS 19	MAR 22	EMBASE is now updated on a daily basis
NEWS 20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 22	APR 04	STN AnaVist $500 visualization usage credit offered

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
http://download.cas.org/express/v8.0-Discover/

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:57:39 ON 12 APR 2006

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:57:52 ON 12 APR 2006
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STRUCTURE FILE UPDATES: 10 APR 2006 HIGHEST RN 879997-63-4
DICTIONARY FILE UPDATES: 10 APR 2006 HIGHEST RN 879997-63-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e 2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN

E1	1	2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, ETHYL ESTER/CN
E2	1	2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, METHYL ESTER/CN
E3	0 -->	2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN
E4	1	2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN
E5	1	2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,E)-/CN
E6	1	2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,Z)-/CN
E7	1	2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,5-DIMETHYL-1,3-CYCLOHEXADIEN-1-YL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN

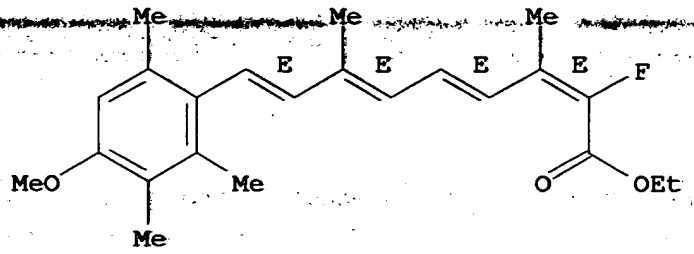
```
E8              1     2,4,6,8-NONATETRAENOIC ACID, 2-METHOXY-9-PHENYL-, ETHYL ESTE
                      R/CN
E9              1     2,4,6,8-NONATETRAENOIC ACID, 2-METHYL-9-PHENYL-, METHYL ESTE
                      R, (2E,4E,6E,8E)-/CN
E10             1     2,4,6,8-NONATETRAENOIC ACID, 2-METHYL-9-PHENYL-, METHYL ESTE
                      R, (ALL-E)-/CN
E11             1     2,4,6,8-NONATETRAENOIC ACID, 3,7-DIETHYL-9-(2-(HEXYLOXY)PHEN
                      YL)-, (ALL-E)-/CN
E12             1     2,4,6,8-NONATETRAENOIC ACID, 3,7-DIETHYL-9-(2-NAPHTHALENYL)-
                      , ETHYL ESTER/CN

=> e4
L1              1 "2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRIMET
                  HYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-"/CN

=> d l1

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   71184-23-1  REGISTRY
ED   Entered STN: 16 Nov 1984
CN   2,4,6,8-Nonatetraenoic acid, 2-fluoro-9-(4-methoxy-2,3,6-
     trimethylphenyl)-3,7-dimethyl-, ethyl ester, (all-E)- (9CI)  (CA
     INDEX NAME)
FS   STEREOSEARCH
MF   C23 H29 F O3
LC   STN Files:  BEILSTEIN*, CA, CAPLUS, TOXCENTER
       (*File contains numerically searchable property data)

Double bond geometry as shown.
```

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              2 REFERENCES IN FILE CA (1907 TO DATE)
              2 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     7.98       8.19

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FILE COVERS 1907 - 12 Apr 2006 VOL 144 ISS 16
FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

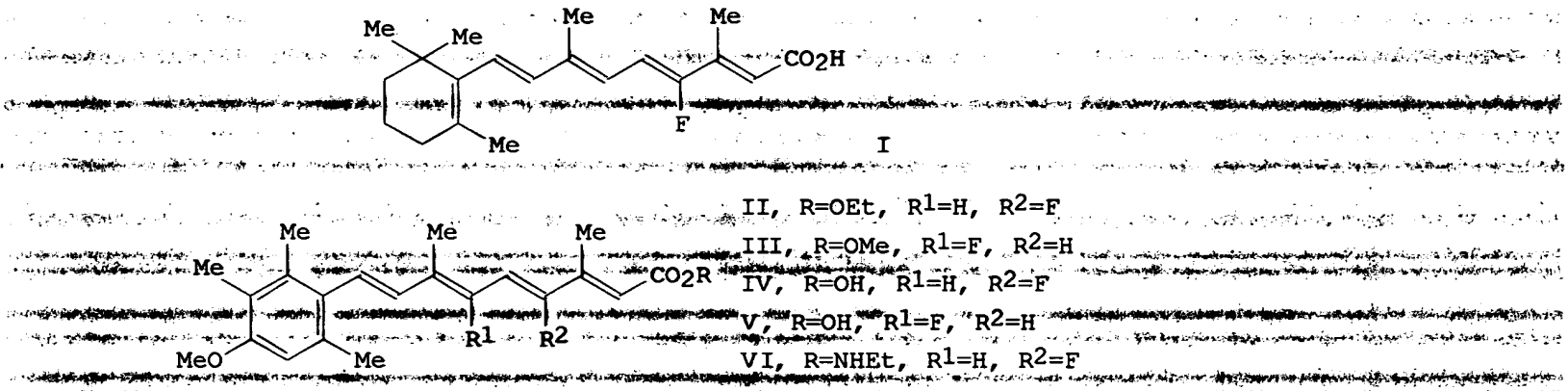
=> l1
L2 2 L1

=> d l2 1-2 ti fbib abs it

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effects of carcinogens and retinoids on prostatic explants
AN 1982:161286 CAPLUS
DN 96:161286
TI Effects of carcinogens and retinoids on prostatic explants
AU Chopra, D. P.; Wilkoff, L. J.
CS Cell Biol. Div., South. Res. Inst., Birmingham, AL, 35205, USA
SO Clin. Androl. (1981), Volume 6, Issue Prostatic Carcinoma: Biol. Diagn., 166-74. Editor(s): Hafez, E. S. E.; Spring-Mills, E. Publisher: Nijhoff, The Hague, Neth.
CODEN: 47GVAQ
DT Conference
LA English
AB Culture methods for mouse prostate explants are discussed along with the effects of various carcinogens on such explants. Mouse prostate explants were treated with benzo(a)pyrene [50-32-8] for 8 days and various retinoids were tested for their ability to reduce the carcinogenicity of this compound 13-cis-retinoic acid [4759-48-2], N-retinoylglycine [71407-30-2], The methylketocyclopentyl analog of retinoic acid [50890-42-1], the 1-methoxyethylcyclopentenyl analog of retinoic acid [71202-59-0], and the 14-fluoro derivative of the trimethylmethoxyphenyl analog of retinoic acid Et ester [**71184-23-1**] were all more active than β-retinoic acid [302-79-4]. Seven other retinoids had activities equal to that of β-retinoic acid.
IT Prostate gland
(explants, retinoids as neoplasm inhibitors in)
IT Neoplasm inhibitors
(retinoids as)
IT 302-79-4 1671-98-3 3887-00-1 4759-48-2 10035-29-7 32450-56-9 50890-42-1 54350-48-0 58970-49-3 63700-89-0 63826-42-6 69877-53-8 **71184-23-1** 71202-59-0 71407-30-2 81425-66-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as neoplasm inhibitor)
IT 50-32-8, biological studies
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(carcinogenicity of, retinoids effect on)

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Fluorinated retinoic acids and their analogs. 1. Synthesis and biological activity of (4-methoxy-2,3,6-trimethylphenyl)nonatetraenoic acid analogs
AN 1979:517154 CAPLUS

DN 91:117154
TI Fluorinated retinoic acids and their analogs. 1. Synthesis and biological activity of (4-methoxy-2,3,6-trimethylphenyl)nonatetraenoic acid analogs
AU Pawson, Beverly A.; Chan, Ka-Kong; DeNoble, James; Han, Ru Jen L.; Piermattie, Virginia; Specian, Anthony C.; Srisethnil, Srisamorn; Trown, Patrick W.; Bohoslawec, Oksana; et al.
CS Chem. Res. Dep., Hoffmann-La Roche Inc., Nutley, NJ, 07110, USA
SO Journal of Medicinal Chemistry (1979), 22(9), 1059-67
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
GI



AB The title compds. were prepared and evaluated for their therapeutic effect on chemical-induced skin papillomas in mice. The hypervitaminosis A dose, a measure of toxicity, was also determined. A therapeutic effect greater than that of the parent nonfluorinated ester was shown by I [3887-00-1], (II) [63700-90-3], (III) [63651-02-5], (IV) [69877-58-3], (V) [71145-31-8], and (VI) [71184-25-3]. Substitution of F for H at C-4 or C-6 in the aromatic series had the greatest pos. effect on antipapilloma activity. Structure-activity relations are discussed.

IT Neoplasm inhibitors
(fluororetinoids)
IT Molecular structure-biological activity relationship
(neoplasm-inhibiting, of fluororetinoids)
IT 54344-92-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(Grignard reaction of)
IT 24490-03-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)
IT 5927-18-4
RL: BIOL (Biological study)
(condensation of, with butenone derivative)
IT 26586-02-7
RL: BIOL (Biological study)
(condensation of, with fluorophosphonoacetate)
IT 54344-92-2
RL: BIOL (Biological study)
(condensation of, with fluorophosphonoacetates)
IT 867-13-0
RL: BIOL (Biological study)

(condensation of, with octatrienone derivative)

IT 13844-35-4
RL: BIOL (Biological study)
(condensation of, with phenylpentadienal derivative)

IT 54757-47-0
RL: BIOL (Biological study)
(condensation of, with phosphonoacetates)

IT 3899-20-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(neoplasm-inhibiting activity of)

IT 63651-12-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Meyer-Schuster rearrangement of)

IT 69877-48-1P 71145-26-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Wittig reaction of)

IT 63651-25-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation with phosphoacetate)

IT 63651-13-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation with phosphonoacetate)

IT 69877-41-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation with tri-Et phosphonoacetate)

IT 69877-44-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to acetal)

IT 69877-50-5P 69877-51-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to esters)

IT 69877-54-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and fluorination of)

IT 26586-02-7P 63651-18-3P 63651-21-8P 63651-22-9P 63673-31-4P 69877-62-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

IT 63651-17-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and isomerization of)

IT 2609-26-9P 3887-00-1P 63651-02-5P 63700-90-3P 69877-58-3P 69877-66-3P 71145-31-8P 71184-25-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and neoplasm-inhibiting activity of)

IT 63650-98-6P 63650-99-7P 63651-06-9P 63651-07-0P 63651-15-0P 63651-38-7P 71145-25-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

IT 69877-38-9P 69877-39-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with C5 fluorophosphonates)

IT 63651-16-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with C5 phosphonate)
IT 63651-28-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with fluorophosphonate derivative)
IT 63651-19-4P 63651-23-0P 63651-24-1P 69877-64-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with methyllithium)
IT 63758-07-6P 69877-43-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with phenylpentadienal derivative)
IT 63651-08-1P 63651-09-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with phosphonate derivs.)
IT 69877-65-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with phosphonoacetate)
IT 54344-93-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with phosphorus tribromide)
IT 69877-88-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with tri-Et phosphite)
IT 69877-86-7P 69877-87-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with triethylphosphite)
IT 63650-96-4P 63650-97-5P 63651-04-7P 63651-05-8P 63651-14-9P
69877-42-5P 69877-46-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)
IT 63650-94-2P 63650-95-3P 63651-10-5P 63700-89-0P 69877-40-3P
69877-52-7P 69877-53-8P 69877-60-7P 69896-64-6P 69926-23-4P
71145-24-9P 71145-28-3P 71145-29-4P **71184-23-1P**
71184-24-2P 71242-55-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)
IT 63651-29-6P 71145-30-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 71145-27-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aldehyde derivative)
IT 63826-41-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with fluorophosphonate derivative)
IT 2356-16-3 2609-24-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phenylpentadienal derivative)
IT 62924-29-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phenylpentadienal derivs.)
IT 54344-92-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.90	17.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

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PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:35:56 ON 12 APR 2006
FILE 'CAPLUS' ENTERED AT 11:35:56 ON 12 APR 2006
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.90	17.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

=> d his

(FILE 'HOME' ENTERED AT 10:57:39 ON 12 APR 2006)

FILE 'REGISTRY' ENTERED AT 10:57:52 ON 12 APR 2006
E 2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
L1 1 E4

FILE 'CAPLUS' ENTERED AT 10:59:25 ON 12 APR 2006
L2 2 L1

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.36	17.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

FILE 'REGISTRY' ENTERED AT 11:36:29 ON 12 APR 2006
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STRUCTURE FILE UPDATES: 10 APR 2006 HIGHEST RN 879997-63-4
DICTIONARY FILE UPDATES: 10 APR 2006 HIGHEST RN 879997-63-4

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****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

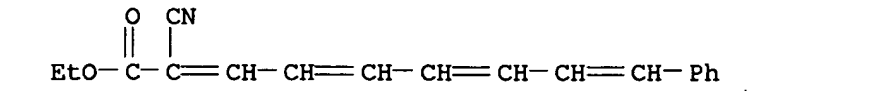
http://www.cas.org/ONLINE/UG/regprops.html

```
=> e e1
E1            1     2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, (ALL-E)-/CN
E2            1     2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, BUTYL ESTER/
                    CN
E3            1 --> 2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, ETHYL ESTER/
                    CN
E4            1     2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, METHYL ESTER
                    /CN
E5            1     2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
                    METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN
E6            1     2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
                    METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,E)-/CN
E7            1     2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
                    METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,Z)-/CN
E8            1     2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,5-DIMET
                    HYL-1,3-CYCLOHEXADIEN-1-YL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL
                    -E)-/CN
E9            1     2,4,6,8-NONATETRAENOIC ACID, 2-METHOXY-9-PHENYL-, ETHYL ESTE
                    R/CN
E10           1     2,4,6,8-NONATETRAENOIC ACID, 2-METHYL-9-PHENYL-, METHYL ESTE
                    R, (2E,4E,6E,8E)-/CN
E11           1     2,4,6,8-NONATETRAENOIC ACID, 2-METHYL-9-PHENYL-, METHYL ESTE
                    R, (ALL-E)-/CN
E12           1     2,4,6,8-NONATETRAENOIC ACID, 3,7-DIETHYL-9-(2-(HEXYLOXY)PHEN
                    YL)-, (ALL-E)-/CN

=> e3
L3            1 "2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, ETHYL ESTER"/CN
```

=> d l3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 84654-95-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN **2,4,6,8-Nonatetraenoic acid, 2-cyano-9-phenyl-, ethyl ester (6CI, 9CI)** (CA INDEX NAME)
FS 3D CONCORD
MF C18 H17 N O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.42	25.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.50

FILE 'CAPLUS' ENTERED AT 11:39:04 ON 12 APR 2006
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FILE COVERS 1907 - 12 Apr 2006 VOL 144 ISS 16
FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> l3
L4 4 L3

```
=> d l4 1-4 ti fbib abvs
'ABVS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
```

ENTER DISPLAY FORMAT (BIB):end

=> d l4 1-4 ti fbib abs

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI 1H and 13C NMR spectra and structure of some polyenic compounds
AN 1995:915821 CAPLUS
DN 124:74476
TI 1H and 13C NMR spectra and structure of some polyenic compounds
AU Kurkovskaja, L. N.; Genkina, N. K.; Shugol, V. L.
CS Inst. Pishchevykh Veshchestv, Russia
SO Zhurnal Strukturnoi Khimii (1995), 36(4), 703-8
CODEN: ZSTKAI; ISSN: 0136-7463
PB Nauka
DT Journal
LA Russian
AB The proton and 13C NMR spectra were determined of a series of Ph(CH:CH)nCH:CXY (X, Y are acceptor substituents). The proton-proton spin-spin interactions were used to determine the degrees of charge transfer in the CH:CH and CH-CH chains. The effects of substituents and chain length on this charge transfer are discussed.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Differential pulse polarography on bifurcate conjugate systems. I. Homologous progressive change of the peak potential
AN 1986:5348 CAPLUS
DN 104:5348
TI Differential pulse polarography on bifurcate conjugate systems. I. Homologous progressive change of the peak potential
AU Hu, Weixiao; Yan, Baozhen; Tai, Tsuichen
CS Inst. Chem., Acad. Sin., Beijing, Peop. Rep. China
SO Fenzi Kexue Yu Huaxue Yanjiu (1985), 5(1), 87-92
CODEN: FKYYDG
DT Journal
LA Chinese
AB The polarog. reduction of the title class compds. [Ph(CH:CH)nCH:C(CN)2 (n = 0-3), Ph(CH:CH)nCH:CAc2 (n = 0-3), Ph(CH:CH)nCH:C(CO2Et)2 (n = 0,1,3,5), Ph(CH:CH)nCH:C(CN)CO2Et (n = 0,1,3,5)] have two clear reduction waves, the peak potentials of which give LFER with (1/2)2/N. LFER are also observed between the HMO-calculated LUMO and the UV of the compds. within each series. LFER do not exist for peak potentials vs. LUMO for compds. in different units.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Structural effect in branched conjugated systems - bifurcation-type of branched polyenic nitriles, carboxylic acids and esters
AN 1983:88685 CAPLUS
DN 98:88685
TI Structural effect in branched conjugated systems - bifurcation-type of branched polyenic nitriles, carboxylic acids and esters
AU Dai, Cuichen; Yu, Zhenjie; Jiang, Mingqian
CS Inst. Chem., Acad. Sin., Beijing, Peop. Rep. China
SO Scientia Sinica, Series B: Chemical, Biological, Agricultural, Medical & Earth Sciences (English Edition) (1982), 25(10), 1021-34
CODEN: SSBSEF; ISSN: 0253-5823
DT Journal
LA English
AB The UV spectra and NMR chemical shifts of the homologous series Me(CH:CH)nCH:C(CN)CO2Et (n = 0, 1, 3, 5), Ph(CH:CH)nCH:C(CN)R (n = 0, 1, 2, 3, 5; R = CN, CO2Et), and Ph(CH:CH)nCH:CR2 (R = CO2H, n = 1, 3, 5; R = CO2Et, n = 0, 1, 3, 5) conformed to the rule of homologous linearity. In all of these branched compds., a red shift in the UV spectra was observed upon introduction of electron-attracting branching groups. Mass spectra

indicate that CN groups are more strongly conjugated with the polyenic chain than are CO2Et groups. Substituent effects of branching groups were calculated by the method of similar triangles.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Vinylene "shift" in asymmetric phenylpolyenes
AN 1957:29795 CAPLUS
DN 51:29795
OREF 51:5739i,5740a-i,5741a
TI Vinylene "shift" in asymmetric phenylpolyenes
AU Wizinger, R.; Sontag, H.
CS Univ. Basel, Switz.
SO Helvetica Chimica Acta (1955), 38, 363-72
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA German
GI For diagram(s), see printed CA Issue.
AB In the PhCH:CH(CH:CH)nPh series the bathochromic shift decreases in value from 28 mμ with each integral increase in the value of n. The bathochromic effect ("shift") of the introduction of the 1st vinylene group and the convergence of the series has been investigated for the series RR'C:CH(CH:CH)nPh (I) where R is a chromophore group and R' is either a chromophore group, H, or a group capable of ring-formation with R. I was synthesized by condensation of compds. containing a reactive Me or :CH2 group with ω-phenylpolyene aldehydes prepared according to Schmitt (C.A. 36, 65235) up to 11-phenylundecapentaenal. The coupling compds. were limited to passive components on account of poor yields with the higher aldehydes. Heating oxothianaphthene 30 min. in alc. containing a few drops of piperidine with Ph(CH:CH)2CHO (II), Ph(CH:CH)3CHO (III), and Ph(CH:CH)5CHO (IV) gave condensation products S.C6H4.CO.C:CH(CH:CH)nPh (A) (n, m.p., color of solution in alc. or AcOH, and λ in mμ given): 2, 153°, golden yellow, 469; 3, 170°, bright red, 482; 5, 212-13°, wine-red, 508. Similarly, condensation of 0.5 g. rhodanine (V) by heating 1 hr. on a steam bath with 0.9 g. II in 5 cc. 90% alc. containing 1.5 g. H2SO4, and condensation of 0.35 g. III with 0.25 g. V in 1 cc. Ac2O containing 3 drops piperidine under the same conditions yielded S.CS.NH.CO.C:CH(CH:CH)nPh (A'): 2, 218-19°, golden-yellow, 424; 3, 237-9°, orange, 449. AcPh in hot alc. in the presence of 3 drops 10% NaOH condensed with III and IV to produce BzCH:CH(CH:CH)nPh (B): 3, 120°, greenish yellow, 401; 5, 172-3°, golden-yellow, 429. Refluxing the analogous pyrylium salts of Series J in hot alc. 2 hrs. with excess aqueous MeNH2 gave [CH:CPh.CH:CPh.NMe.CCH:CH(CH:CH)nPh]ClO4 (C): 2, -, golden yellow, 420; 3, -, orange, 444; 5, -, red, 483. N-Methylquinaldinium Me sulfate (VI) (0.5 g.) was condensed by heating 1 hr. on a steam bath with 0.3 g. BzH in 1 cc. Ac2O containing 0.5 cc. pyridine, the product taken up in alc. and, after 2 hrs., treated with 5 cc. 20% NaClO4. This and similar condensations with PhCH:CHCHO, II, III, and IV gave [CH:CH.C6H4.NMe.CCH:CH(CH:CH)nPh]ClO4 (D): 0, -, bright yellow, 379; 1, 225-7°, golden-yellow, 417; 2, 227°, orange, 483; 5, 278-80° (decomposition), red, 515. Condensation of 2-methylbenzoselenazole ethiodide with BzH, PhCH:CHCHO, II and III by heating 1 hr. on a steam bath in alc. containing a few drops piperidine and treating the product with 20% aqueous NaClO4 gave [Se.C6H4.NEt.CCH:CH(CH:CH)nPh]ClO4(E):0,237-8°, golden yellow, 384; 1, 219-20°, orange, 426; 2, 198-200°, red-orange, 462; 3, above 190° (decomposition), red, 488. Condensations with NCCH2CO2Et gave EtO2C(CN)C:CH(CH:CH)nPh (F): 2, 166-7°, golden-yellow, 428; 3, 169°, red-orange, 465; 4, 190°, red, 497; 5, 210°, wine-red, 508. Condensations with barbituric acid and 5-methyl-2-phenyl-3-pyrazolone gave CO.NH.CO.NH.CO.C:CH(CH:CH)nPh (G): 3, 241-3°, red, 451; 5, 252-4°, blue-red, 503; and CMe:N.NPh.CO.C:CH(CH:CH)nPh (H): 2, 167°, orange, 409; 3, 163-4°, red, 449; 5, 197°, wine-red, 495. Similar

condensation of 4,6-diphenyl-2-methylpyrylium sulfoacetate (cf. Schneider, C.A. 16, 1247) and conversion of the condensation products with 20% aqueous NaClO4 yielded [O.CPh:CH.CPh:CHCCH:CH(CH:CH)nPh]ClO4 (J): 2, 252-5° (decomposition), red-violet, 546; 3, 255° (decomposition), blue, 585; 5, above 250° (decomposition), green, 652. From tabulated values it is seen that the combined bathochromic effect for 5 vinylene groups varies from 76 mμ in series A to 194 mμ in series J, and that the introduction of the 1st vinylene group gives shifts ranging from 24 to 48 mμ. With the exception of series A and A' there is a generally definite convergence of shift values due to increase of the number of vinylene linkages very similar to those noted in the diphenylpolyene series though much greater in series J and very dissimilar in E. Between the initial ultraviolet maximum and the shifts following the introduction of the 1st and of the combined groups no parallel behavior is apparent. The low average shift in series A and A' is indicative of a fundamental constitutional difference between these compds. and those of other series where the 1st C atom of the conjugated chain is linked with a chromophore system and an H atom or with two chromophores. Other problems of interest for future investigation are proposed.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.80	38.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.00	-4.50

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STRUCTURE FILE UPDATES: 10 APR 2006 HIGHEST RN 879997-63-4
DICTIONARY FILE UPDATES: 10 APR 2006 HIGHEST RN 879997-63-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information

on property searching in REGISTRY, refer to:

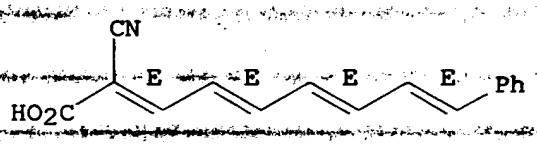
http://www.cas.org/ONLINE/UG/regprops.html

=> e1
L5 1 "2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, (ALL-E)-"/CN

=> d l5

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 81620-82-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN **2,4,6,8-Nonatetraenoic acid, 2-cyano-9-phenyl-, (all-E)- (9CI)**
(CA INDEX NAME)
FS STEREOSEARCH
MF C16 H13 N O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.10	45.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.50

FILE 'CAPLUS' ENTERED AT 11:41:35 ON 12 APR 2006
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FILE COVERS 1907 - 12 Apr 2006 VOL 144 ISS 16
FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.

They are available for your review at:

http://www.cas.org/infopolicy.html

=> l5
L6 1 L5

=> d l6 ti fbib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI Structural effect in cross conjugative systems. IV. Properties of α-carboxyphenylpolyenic cyanides and the quantum chemical calculation of orbital energy and bond order
AN 1982:180289 CAPLUS
DN 96:180289
TI Structural effect in cross conjugative systems. IV. Properties of α-carboxyphenylpolyenic cyanides and the quantum chemical calculation of orbital energy and bond order
AU Liang, Desheng; Lai, Chugen; Chiang, Mingchien
CS Inst. Chem., Acad. Sin., Shanghai, Peop. Rep. China
SO Fenzi Kexue Xuebao (1981-1982) (1981), 1(1), 17-30
CODEN: FKXUDX; ISSN: 0253-3677
DT Journal
LA Chinese
AB all-trans-Ph(CH:CH)nCH:C(CN)CO2H (I) are prepared and their UV and mass spectra are observed. The MO, π-energy differences, and π-bond orders of I are calculated by CNDO/2. The properties of I are correctly calculated by using the extended form of the homologous equation for the corresponding linear conjugated system (ω-phenylpolyenic nitriles) with an α-CO2H group substituent. Cross-conjugated systems may be generally treated by allowing 1 of the 2 branches to become the terminal group of a linear conjugated system while the other branch becomes the substituent.

=> d l6 it

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
IT Conjugation
(cross-, in α-carboxy(phenyl)polyolefinic nitriles, MO calcns. and)
IT Molecular orbital
(for cross-conjugated α-carboxy(phenyl)polyolefinic nitriles)
IT Resonance
(in α-carboxy(ω-phenyl)polyolefinic nitriles)
IT Mass spectra
(of α-carboxy(ω-phenyl)polyolefinic nitriles)
IT Homologous series
(of α-carboxy(ω-phenyl)polyolefinic nitriles and related linear conjugated systems, MO calcn. of)
IT Ultraviolet and visible spectra
(of α-carboxy(ω-phenyl)polyolefinic nitriles, MO calcn. and)
IT Bond order
(poly-, in cross-conjugated α-carboxy(phenyl)polyolefinic nitriles and related linear conjugated systems)
IT Stabilization energy
(resins, in cross-conjugated α-carboxy(phenyl)polyolefinic nitriles)
IT Carboxyl group
(α-, effect of, on bond order and UV of ω-phenylpolyolefinic nitriles)
IT Nitriles, properties
RL: PRP (Properties)

(α-carboxy substituted ω-phenylpolyenic, MO calcns. of)
IT Unsaturated compounds
RL: PRP (Properties)
(cross-conjugated, MO calcn. of UV and other properties of)
IT Energy level excitation
(electronic, of α-carboxy(ω-phenyl)polyolefinic nitriles and related linear conjugated systems, MO calcn. of)
IT 100-47-0, properties
RL: PRP (Properties)
(UV of, MO calcn. of)
IT 65-85-0, properties 93-58-3 98-86-2, properties 100-52-7, properties 140-10-3, properties 1885-38-7 14378-06-4 81620-80-6
RL: PRP (Properties)
(bond order and UV of, MO calcn. of)
IT 81620-81-7P **81620-82-8P** 81620-83-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and UV and bond order of, MO calcn. of)
IT 10576-63-3P 28010-12-0P 53649-66-4P 81620-77-1P 81620-78-2P 81620-79-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bond order and UV of, MO calcn. of)

=> 81620-82-8P
L7 1 81620-82-8P

=> 81620-82-8P
L8 1 81620-82-8P

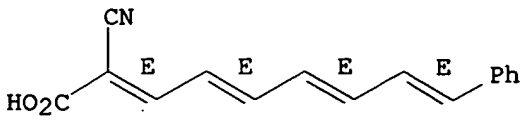
=> 81620-82-8
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L10 1 L9

=> display hitstr
ENTER (L10), L# OR ?:l10
ENTER ANSWER NUMBER OR RANGE (1):1

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
IT **81620-82-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and UV and bond order of, MO calcn. of)
RN 81620-82-8 CAPLUS
CN 2,4,6,8-Nonatetraenoic acid, 2-cyano-9-phenyl-, (all-E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     7.54      62.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.25

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:47:34 ON 12 APR 2006

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
  * * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:57:26 ON 12 APR 2006
FILE 'CAPLUS' ENTERED AT 11:57:26 ON 12 APR 2006
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     7.54      62.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.25

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     8.00      62.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.25

FILE 'REGISTRY' ENTERED AT 11:57:52 ON 12 APR 2006
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STRUCTURE FILE UPDATES:   10 APR 2006  HIGHEST RN 879997-63-4
DICTIONARY FILE UPDATES:  10 APR 2006  HIGHEST RN 879997-63-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.
```

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10025947\10025947 clm 100rce.str
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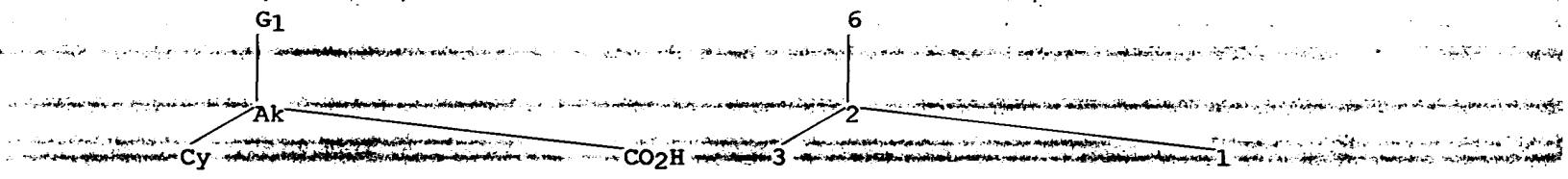



```
chain nodes :
1 2 3 6
chain bonds :
1-2  2-3  2-6
exact/norm bonds :
1-2  2-3  2-6

G1:O,N,Cl,Br,F,I,Cb

Match level :
1:CLASS  2:CLASS  3:Atom  6:CLASS
Generic attributes :
2:
Type of chain          : Linear
Saturation             : Unsaturated

Element Count :
Node 2: Limited
    C,C5-6

L11     STRUCTURE UPLOADED

=> d l11
L11 HAS NO ANSWERS
L11             STR
```

G1 O,N,Cl,Br,F,I,Cb

Structure attributes must be viewed using STN Express query preparation.

=> search l11 sss sam
SAMPLE SEARCH INITIATED 11:58:15 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 154635 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS (2 INCOMPLETE) 5 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

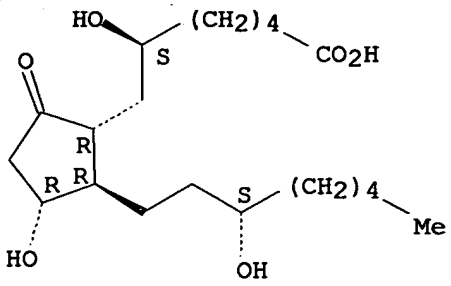
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 3069536 TO 3115864
PROJECTED ANSWERS: 6552 TO 8910

L12 5 SEA SSS SAM L11

=> d scan

L12 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Prostan-1-oic acid, 6,11,15-trihydroxy-9-oxo-, (6S,11α,15S)- (9CI)
MF C20 H36 O6

Absolute stereochemistry.



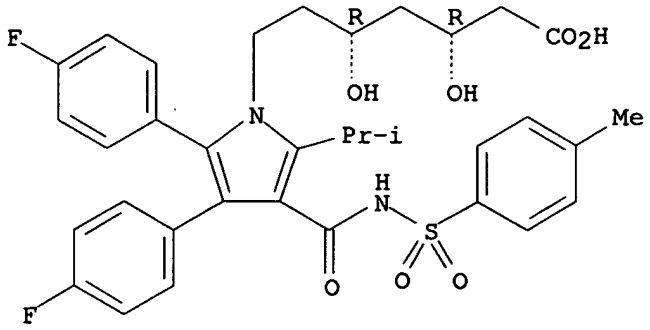
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L12 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN 1H-Pyrrole-1-heptanoic acid, 2,3-bis(4-fluorophenyl)-β,δ-dihydroxy-5-(1-methylethyl)-4-[[[(4-methylphenyl)sulfonyl]amino]carbonyl]-, (βR,δR)- (9CI)
MF C34 H36 F2 N2 O7 S

CI COM

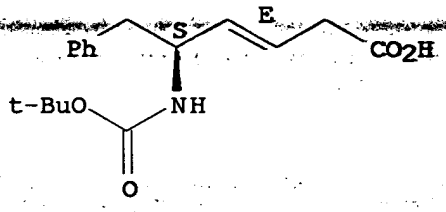
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (3E,5S)- (9CI)
MF C17 H23 N O4
CI COM

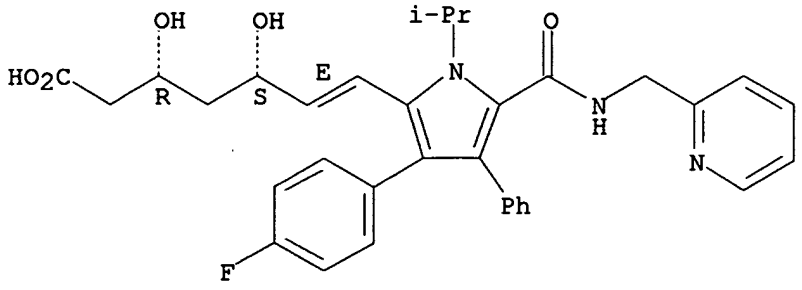
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[3-(4-fluorophenyl)-1-(1-methylethyl)-4-phenyl-5-[[(2-pyridinylmethyl)amino]carbonyl]-1H-pyrrol-2-yl]-3,5-dihydroxy-, (3R,5S,6E)- (9CI)
MF C33 H34 F N3 O5

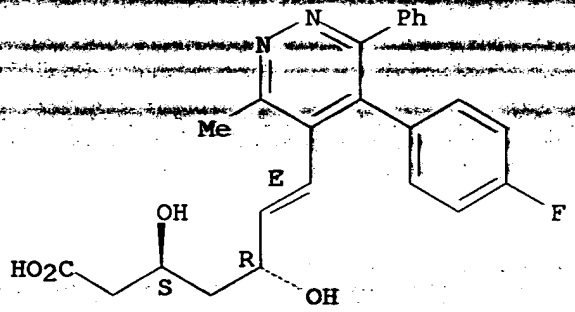
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[5-(4-fluorophenyl)-3-methyl-6-phenyl-4-pyridazinyl]-3,5-dihydroxy-, monosodium salt, [R-[R*,S*-(E)]]- (9CI)
MF C24 H23 F N2 O4 . Na

Absolute stereochemistry.
Double bond geometry as shown.



● Na

ALL ANSWERS HAVE BEEN SCANNED

=> e 3-Hexenoic acid, 5-amino-6-phenyl/cn

E1	1	3-HEXENOIC ACID, 5-AMINO-4-FLUORO-6-PHENYL-, (3E,5S)-/CN
E2	1	3-HEXENOIC ACID, 5-AMINO-4-FLUORO-6-PHENYL-, (3Z,5S)-/CN
E3	0 -->	3-HEXENOIC ACID, 5-AMINO-6-PHENYL/CN
E4	1	3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-/CN
E5	1	3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-, TRIFLUOROACETATE/CN
E6	1	3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (S-(Z))-/CN
E7	1	3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (S-(Z))-, TRIFLUOROACETATE/CN
E8	1	3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, HYDROCHLORIDE, (S-(E))-/CN
E9	1	3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, METHYL ESTER, (S-(E))-/CN
E10	1	3-HEXENOIC ACID, 5-BROMO-2-METHOXY-, ETHYL ESTER/CN

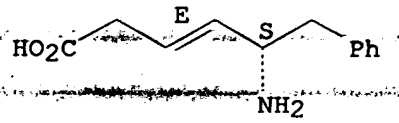
```
E11          1     3-HEXENOIC ACID, 5-CHLORO-/CN
E12          1     3-HEXENOIC ACID, 5-CHLORO-, ETHYL ESTER, (E)-/CN

=> e4
L13          1 "3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-"/CN

=> d l13

L13  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   521064-20-0  REGISTRY
ED   Entered STN:  27 May 2003
CN   3-Hexenoic acid, 5-amino-6-phenyl-, (3E,5S)- (9CI)  (CA INDEX
     NAME)
FS   STEREOSEARCH
MF   C12 H15 N O2
CI   COM
SR   CA
LC   STN Files:   CA, CAPLUS

Absolute stereochemistry.  Rotation (+).
Double bond geometry as shown.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                  1 REFERENCES IN FILE CA (1907 TO DATE)
                  1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               8.42      71.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                               0.00      -5.25

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FILE COVERS 1907 - 12 Apr 2006  VOL 144 ISS 16
FILE LAST UPDATED: 11 Apr 2006  (20060411/ED)
```

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=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.92	72.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.25

FILE 'CAPLUS' ENTERED AT 12:01:35 ON 12 APR 2006
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=> l13
L14 1 L13

=> d l14 ti fbib asb
'ASB' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;

SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes. For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO. You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

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FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l14 ti fbib abs

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI Design and synthesis of amide isosteres of Phe-Gly: potential
peptidomimetic ligands for the intestinal oligopeptide transporter PepT1
AN 2002:692505 CAPLUS
DN 138:354217
TI Design and synthesis of amide isosteres of Phe-Gly: potential
peptidomimetic ligands for the intestinal oligopeptide transporter PepT1
AU Vabeno, Jon; Brisander, Magnus; Chen, Weiqing; Borchardt, Ronald T.;
Luthman, Kristina
CS Department of Medicinal Chemistry, University of Tromso, Tromso, N-9037,
Norway
SO Peptides: The Wave of the Future, Proceedings of the Second International
and the Seventeenth American Peptide Symposium, San Diego, CA, United
States, June 9-14, 2001 (2001), 610-611. Editor(s): Lebl, Michal;
Houghten, Richard A. Publisher: American Peptide Society, San Diego,
Calif.
CODEN: 69DBAL; ISBN: 0-9715560-0-8
DT Conference

LA English
AB A symposium report. The transport of di- and tripeptides across the intestinal epithelium is an active process mediated by the oligopeptide transporter PepT1. Synthetic Phe-Gly peptidomimetics, where amide bond was replaced by isosteric moieties, were used in preliminary transport studies on Caco-2 cells.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.66	75.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-6.00

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:02:39 ON 12 APR 2006

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
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FILE 'CAPLUS' ENTERED AT 12:43:12 ON 12 APR 2006
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.66	75.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-6.00

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.66	75.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-6.00

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:43:29 ON 12 APR 2006

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PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
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FILE 'CAPLUS' ENTERED AT 12:48:52 ON 12 APR 2006
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.12	76.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-6.00

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.12	76.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-6.00

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FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

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=> e11
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L16 1 L15

=> d l16 ti fbib abs

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI Mode of addition to conjugated unsaturated systems. VI. Addition of halogens and hydrogen halides to conjugated unsaturated carboxylic acids and esters
AN 1934:16632 CAPLUS
DN 28:16632
OREF 28:1984h-i,1985a-e
TI Mode of addition to conjugated unsaturated systems. VI. Addition of halogens and hydrogen halides to conjugated unsaturated carboxylic acids and esters
AU Ingold, C. K.; Pritchard, G. J.; Smith, H. G.
SO Journal of the Chemical Society (1934) 79-86
CODEN: JCSOA9; ISSN: 0368-1769
DT Journal
LA Unavailable
AB cf. C. A. 27, 4775. β-Vinylacrylic acid- (I) and Cl in H2O give 60% of δ-chloro-γ-hydroxy-Δα-pentenoic acid (II), m. 73-4°; its structure was established by the action of O3, giving AcCHO, identified as the 2,4-dinitrophenylhydrazone, m. 299-300° (decomposition). I in Et2O, treated with aqueous HClO, gives a dichlorodihydroxyvaleric acid, m. 166°; I and Cl in H2O or I in Et2O and aqueous HBrO give the δ-Br derivative corresponding to II, m. 92-3°. The addition of Br to sorbic acid in CS2 gives as the main product the crystalline γ,δ-dibromide (III), together with a liquid byproduct, the quantity of which was considerable in CS2, CHCl3 and hexane but was much less in AcOH or with quinolinium tribromide in AcOH, all expts. at room temperature. III with O3 gives MeCH:CBrCHO and CHOCO2H. The liquid dibromide contains III and some α,β-isomer. ICl and sorbic acid give γ-chloro-δ-iodo-β-ethylacrylic acid (IV), m. 88° and a liquid byproduct not examined. IV with EtOH-AcOK or C5H5N, followed by esterification, gives Et sorbate and Et γ-chlorosorbate, b15 105-10°, m. 31-2°. The action of Cl on sorbic acid in H2O or of aqueous HClO in Et2O gives 70% of δ-chloro-γ-hydroxy-Δα-hexenoic acid (V), m. 97°; oxidation with O3 gives ethylglyoxal, identified as the 2,4-dinitrophenylhydrazone, m. 247°; in neutral solution KMnO4 gives MeCHClCO2H; reduction of V with Pt oxide and H2 gives δ-chloro-γ-hexolactone, b16 130-2°, b756 243°, m. about 10°. The main product of the action of Br was the δ-Br derivative corresponding to V, m. 110°; the oily byproduct, esterified with MeOH, gave a fraction analyzing for Me bromohydroxyhexenoate, b0.5 118°, and a fraction, C7H11O4Br, b0.5 148-50°, m. 154-5°. Me sorbate with Br in H2O gives Me γ,δ-dibromo-Δα-hexanoate, since O3 yields α-bromocrotonaldehyde, whose 2,4-dinitrophenylhydrazone, deep red, m. 220° (decomposition). Br and sorbic acid in EtOH give the γ-Br derivative, also obtained by the action of EtOH-KOH on the di-Br acid. The 2,4-dinitrophenylhydrazone of AcH exists in 2 forms, the less stable modification, orange-red, m. 146°, changing to the more stable, yellow, m. 162°, on crystallization from EtOH. Liquid HCl and sorbic acid at room temperature for several days give an oil, which decomps. on distillation and consists largely of δ-chloro-Δβ-hexenoic acid, since O3 gives AcCHO. Br and Et muconate give a dibromide, m. 81°, yielding with O3 Et β-bromo-β-aldehydoacrylate, the 2,4-dinitrophenylhydrazone of which, yellow, m. 193-4°, (CO2H)2 and (CHBrCO2H)2; ICl gives a compound, m. 68°, believed to be Et β-chloro-α-iodo-Δγ-dihydromuconate.

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	5.50	87.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-6.75

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=> el
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L18 0 L17

=> d cost

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	0.40	20.25
NETWORK CHARGES	0.06	3.12
SEARCH CHARGES	0.00	34.41
DISPLAY CHARGES	0.00	35.62
FULL ESTIMATED COST	0.46	93.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.75

IN FILE 'CAPLUS' AT 12:53:56 ON 12 APR 2006

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION

```
FULL ESTIMATED COST                                    0.46       93.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00       -6.75

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:54:02 ON 12 APR 2006

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Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:39:37 ON 12 APR 2006
FILE 'CAPLUS' ENTERED AT 13:39:37 ON 12 APR 2006
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COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY     SESSION
FULL ESTIMATED COST                                    0.46       93.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00       -6.75

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY     SESSION
FULL ESTIMATED COST                                    0.46       93.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00       -6.75

STN INTERNATIONAL LOGOFF AT 13:39:52 ON 12 APR 2006



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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
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NEWS  2          "Ask CAS" for self-help around the clock
NEWS  3  DEC 23  New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
                 USPAT2
NEWS  4  JAN 13  IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS  5  JAN 13  New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                 INPADOC
NEWS  6  JAN 17  Pre-1988 INPI data added to MARPAT
NEWS  7  JAN 17  IPC 8 in the WPI family of databases including WPIFV
NEWS  8  JAN 30  Saved answer limit increased
NEWS  9  FEB 21  STN AnaVist, Version 1.1, lets you share your STN AnaVist
                 visualization results
NEWS 10  FEB 22  The IPC thesaurus added to additional patent databases on STN
NEWS 11  FEB 22  Updates in EPFULL; IPC 8 enhancements added
NEWS 12  FEB 27  New STN AnaVist pricing effective March 1, 2006
NEWS 13  FEB 28  MEDLINE/LMEDLINE reload improves functionality
NEWS 14  FEB 28  TOXCENTER reloaded with enhancements
NEWS 15  FEB 28  REGISTRY/ZREGISTRY enhanced with more experimental spectral
                 property data
NEWS 16  MAR 01  INSPEC reloaded and enhanced
NEWS 17  MAR 03  Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 18  MAR 08  X.25 communication option no longer available after June 2006
NEWS 19  MAR 22  EMBASE is now updated on a daily basis
NEWS 20  APR 03  New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 21  APR 03  Bibliographic data updates resume; new IPC 8 fields and IPC
                 thesaurus added in PCTFULL
NEWS 22  APR 04  STN AnaVist $500 visualization usage credit offered
NEWS 23  APR 12  LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 24  APR 12  Improved structure highlighting in FQHIT and QHIT display
                 in MARPAT
NEWS 25  APR 12  Derwent World Patents Index to be reloaded and enhanced during
                 second quarter; strategies may be affected

NEWS EXPRESS  FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
              V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
              http://download.cas.org/express/v8.0-Discover/

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FILE 'HOME' ENTERED AT 05:32:02 ON 13 APR 2006

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES: 11 APR 2006 HIGHEST RN 880129-32-8
DICTIONARY FILE UPDATES: 11 APR 2006 HIGHEST RN 880129-32-8

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
**************************************************************************
*                                                                        *
* The CA roles and document type information have been removed from      *
* the IDE default display format and the ED field has been added,        *
* effective March 20, 2005.  A new display format, IDERL, is now         *
* available and contains the CA role and document type information.      *
*                                                                        *
**************************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.65

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:32:21 ON 13 APR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 05:37:10 ON 13 APR 2006
FILE 'REGISTRY' ENTERED AT 05:37:10 ON 13 APR 2006

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.65

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 clm 7 rce.str

chain nodes :
1 2 3 4
chain bonds :
1-2 2-3 2-4
exact/norm bonds :
1-2 2-3 2-4

G1:O,N

Match level :
1:CLASS 2:CLASS 3:Atom 4:CLASS
Generic attributes :
2:
Type of chain : Linear
Saturation : Unsaturated

Element Count :
Node 2: Limited
C,C4-8

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 05:37:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 149950 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS 9 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

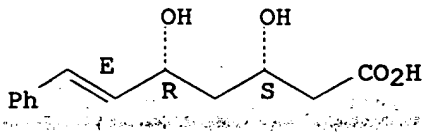
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2976177 TO 3021823
PROJECTED ANSWERS: 11937 TO 15053

L2 9 SEA SSS SAM L1

=> d scan

L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 3,5-dihydroxy-7-phenyl-, [R-[R*,S*-(E)]]- (9CI)
MF C13 H16 O4

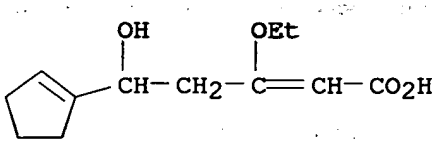
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

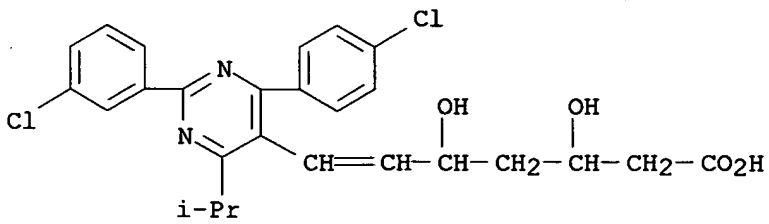
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Pentenoic acid, 5-(1-cyclopenten-1-yl)-3-ethoxy-5-hydroxy- (9CI)
MF C12 H18 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

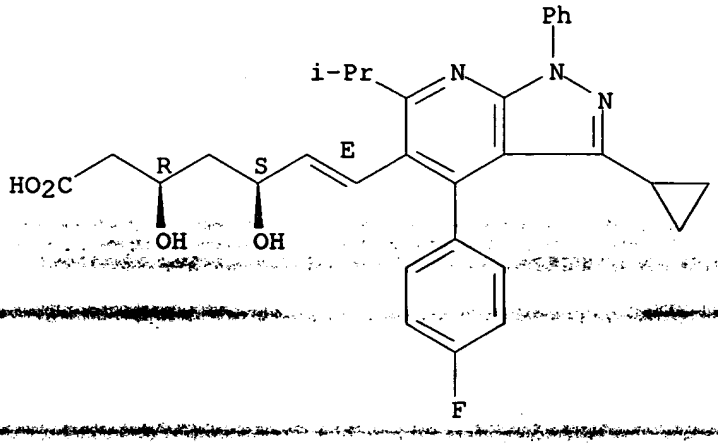
L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[2-(3-chlorophenyl)-4-(4-chlorophenyl)-6-(1-methylethyl)-5-pyrimidinyl]-3,5-dihydroxy-, monosodium salt (9CI)
MF C26 H26 Cl2 N2 O4 . Na



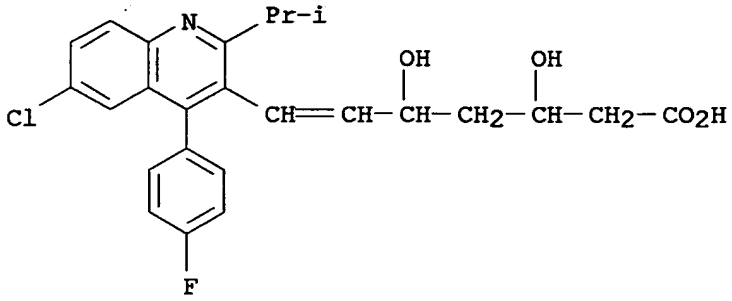
● Na

L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[3-cyclopropyl-4-(4-fluorophenyl)-6-(1-methylethyl)-1-phenyl-1H-pyrazolo[3,4-b]pyridin-5-yl]-3,5-dihydroxy-, monosodium salt, (3R,5S,6E)-rel- (9CI)
MF C31 H32 F N3 O4 . Na

Relative stereochemistry.
Double bond geometry as shown.



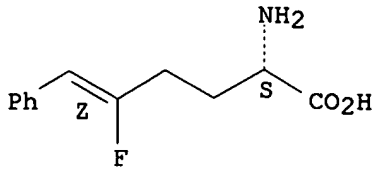
L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[6-chloro-4-(4-fluorophenyl)-2-(1-methylethyl)-3-quinolinyl]-3,5-dihydroxy- (9CI)
MF C25 H25 Cl F N O4
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-amino-5-fluoro-6-phenyl-, (2S,5Z)- (9CI)
MF C12 H14 F N O2

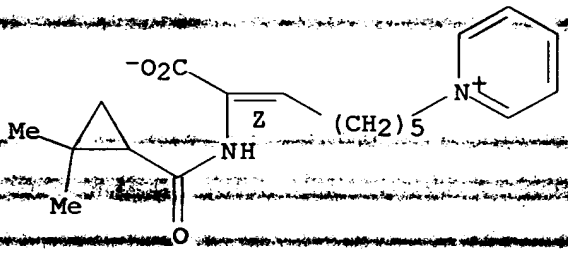
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

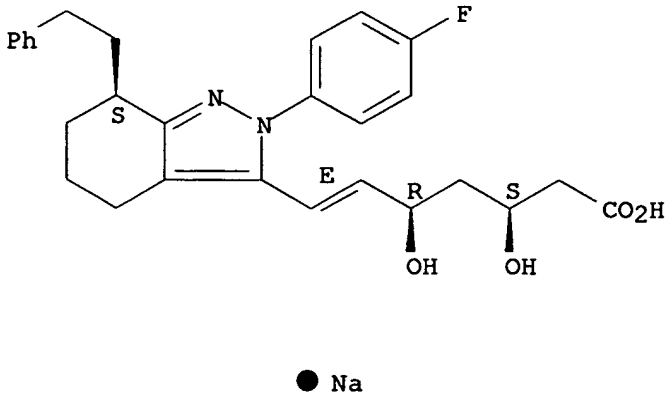
L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pyridinium, 1-[7-carboxy-7-[[(2,2-dimethylcyclopropyl)carbonyl]amino]-6-heptenyl]-, inner salt, (Z)- (9CI)
MF C19 H26 N2 O3

Double bond geometry as shown.



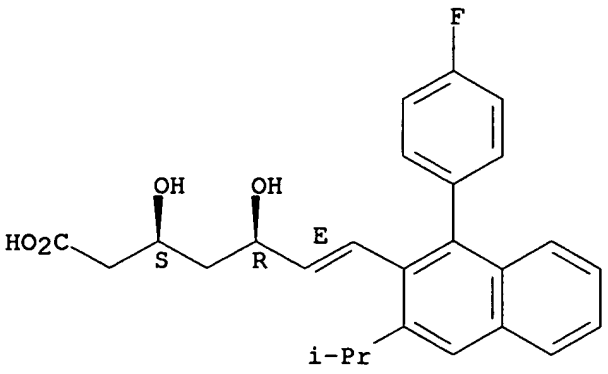
L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[2-(4-fluorophenyl)-4,5,6,7-tetrahydro-7-(2-phenylethyl)-2H-indazol-3-yl]-3,5-dihydroxy-, monosodium salt, [3(3R*,5S*,6E),7R*]- (9CI)
MF C28 H31 F N2 O4 . Na

Relative stereochemistry.
Double bond geometry as shown.



L2 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Heptenoic acid, 7-[1-(4-fluorophenyl)-3-(1-methylethyl)-2-naphthalenyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI)
MF C26 H27 F O4 . Na

Relative stereochemistry.
Double bond geometry as shown.



● Na

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.64	2.85

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:40:32 ON 13 APR 2006

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PASSWORD:
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SESSION RESUMED IN FILE 'REGISTRY' AT 05:47:10 ON 13 APR 2006
FILE 'REGISTRY' ENTERED AT 05:47:10 ON 13 APR 2006
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.64	2.85

=> d his

(FILE 'HOME' ENTERED AT 05:32:02 ON 13 APR 2006)

FILE 'REGISTRY' ENTERED AT 05:32:11 ON 13 APR 2006
L1 STRUCTURE UPLOADED
L2 9 SEARCH L1 SSS SAM

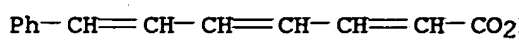
=> e 7-phenyl-2,4,6-heptatrienoic acid/cn
E1 1 7-PHENYL-2,3-DICHLORODIBENZO-P-DIOXIN/CN

```
E2            1     7-PHENYL-2,4,6-HEPTATRIENAL/CN
E3            1 --> 7-PHENYL-2,4,6-HEPTATRIENOIC ACID/CN
E4            1     7-PHENYL-2,4,6-HEPTATRIENOYLHYDROXAMIC ACID/CN
E5            1     7-PHENYL-2,5-NORBORNADIENE/CN
E6            1     7-PHENYL-2-ANILINO-1-PHENYL-1,6-NAPHTHYRIDIN-4(1H)-ONE/CN
E7            1     7-PHENYL-2-ANILINO-1-PHENYL-1,8-NAPHTHYRIDIN-4(1H)-ONE/CN
E8            1     7-PHENYL-2-HEPTANONE/CN
E9            1     7-PHENYL-2-NAPHTHALENOL/CN
E10           1     7-PHENYL-2-NAPHTHOL/CN
E11           1     7-PHENYL-2-OCTANONE/CN
E12           1     7-PHENYL-2-OXA-7-AZABICYCLO(3.2.0)HEPTAN-6-ONE/CN

=> e3
L3            1 "7-PHENYL-2,4,6-HEPTATRIENOIC ACID"/CN

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   6460-62-4  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2,4,6-Heptatrienoic acid, 7-phenyl-  (7CI, 8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   6-Phenyl-1,3,5-hexadiene-1-carboxylic acid
CN   7-Phenyl-2,4,6-heptatrienoic acid
CN   Phenylbutadieneacrylic acid
FS   3D CONCORD
MF   C13 H12 O2
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, TOXCENTER,
          USPAT2, USPATFULL
          (*File contains numerically searchable property data)
```



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             17 REFERENCES IN FILE CA (1907 TO DATE)
              2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             17 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               11.06      11.27

FILE 'CAPLUS' ENTERED AT 05:49:47 ON 13 APR 2006
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FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

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=> l3
L4 17 L3

=> d l412-17 ti fbi abs
'L999-998' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
'FBI' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram

```
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
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FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
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=> d l4 12-17 ti fbi abs
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ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
```

FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l4 12-17 ti fbib abs

L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of 5-aryl-2,4-pentadienals and 5-aryl-2,4,6-heptatrienoic acids
AN 1970:434990 CAPLUS
DN 73:34990
TI Synthesis of 5-aryl-2,4-pentadienals and 5-aryl-2,4,6-heptatrienoic acids
AU Dombrovskii, A. V.; Pribytkova, L. G.; Ganushchak, N. I.; Vengrzhanovskii, V. A.
CS Chernigov. Gos. Univ., Chernigov, USSR
SO Zhurnal Organicheskoi Khimii (1970), 6(5), 964-7
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian
AB The reaction in the cold of XC6H4CH:CHCH:CH2 with POCl3HCONMe2 mixture in tetrahydrofuran gave 30-67% XC6H4CH:CHCH:CHCHO (I, X = H, p-Me, p-MeO, o-Cl, or p-Cl). The reaction of I with (EtO)2P(O)CHNaCO2Et gave 61-96% XC6H4CH:CHCH:CHCO2Et which was saponified to the corresponding acid.

L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI (+)-(5S)-δ-Lactone of 5-hydroxy-7-phenylhepta-2,6-dienoic acid, a natural product from Cryptocarya caloneura
AN 1968:29406 CAPLUS
DN 68:29406
TI (+)-(5S)-δ-Lactone of 5-hydroxy-7-phenylhepta-2,6-dienoic acid, a natural product from Cryptocarya caloneura
AU Hlubucek, J. R.; Robertson, Alexander V.
CS Univ. Sydney, Sydney, Australia
SO Australian Journal of Chemistry (1967), 20(10), 2199-206
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The structure, including absolute configuration, of a new compound extracted from C.
caloneura was determined by degradation as the (+)-(5S)-δ-lactone of 5-hydroxy-7-phenylhepta-2,6-dienoic acid (I). The structure was confirmed by synthesis of its racemate.

L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Reactions with phosphinealkylenes. VIII. Novel synthesis of carboxylic acids from phosphine alkylenes
AN 1964:440194 CAPLUS
DN 61:40194

OREF 61:6945g-h,6946a-d
TI Reactions with phosphinealkylenes. VIII. Novel synthesis of carboxylic acids from phosphine alkylenes
AU Bestmann, Hans Juergen; Schulz, Heinz
CS Tech. Hochschule, Munich, Germany
SO Ann. (1964), 674, 11-17
DT Journal
LA Unavailable
AB cf. CA 59, 10111b. Phosphine alkylenes react with chlorocarbonates by transylidation to yield carbalkoxylated derivs. which can be used in various ways for the synthesis of carboxylic acids. Ph3P:CHCH:CH2 (I) reacted with ClCO2Me (II) in the γ-position to the P atom. A simple spot test for Ph3P is described. All reactions were performed under N. NaNH2 from 0.5 g. Na in about 100 cc. liquid NH3 treated. with 22 millimoles appropriate [RCH2PPh3]Cl (III), the NH3 evaporated, the residue refluxed 10 min. with 100 cc. dry C6H6, treated dropwise with 0.01 mole suitable chloroformate in 50 cc. dry C6H6, and filtered from the III (80-100%), and the residue from the filtrate recrystd. yielded the corresponding R(R'O2C)C:PPh3 (IV). In this manner were prepared the following IV (R' = Me) (R, m.p., and % yield given): H, 164° (AcOEt), 80; Me, 145° (AcOEt), 95; Et, 125° (AcOEt-petr. ether), 88; Pr (V), 105° (C6H6-petr. ether), 96; Ph (VI), 155° (AcOEt), 80; cyclohexyl, -(oil),75. VI (1.00 g.) and 10 cc. 20% KOH in 1:1 MeOHH2O refluxed 2 hrs., filtered from Ph3PO, and acidified with 2N H2SO4 yielded 0.32 g. PhCH2CO2H, m. 76°. The yield from 17.4 g. hexahydrobenzyltriphenylphosphonium bromide treated with 2.16 g. ClCO2Et and the oily product saponified gave 1.9 g. cyclohexylacetic acid, b3 110-15°, m. 30°. [PrPPh3]Br (8.8 g.) converted to the yield, treated with II, and filtered, the filtrate refluxed 10 hrs. with 1.06 g. BzH, and the product refluxed 2 hrs. with 40 cc. KOH in 1:1 H2O-MeOH yielded 1.25 g. trans-PhCH:CEtCO2H, m. 105-6° (aqueous AcOH). V (2.00 g.) and 0.56 cc. BzH in 100 cc. dry AcOEt refluxed 8 hrs. yielded 0.78 g. trans-PhCH:CPrCO2H, needles, m. 93°. V (2.26 g.) and 0.71 cc. PhCH:CHCHO in 120 cc. dry AcOEt refluxed 24 hrs. gave similarly 0.87 g. PhCH:CHCH:CPrCO2H, needles, m. 145-6° (aqueous AcOH). PH3P:CMeCO2Et (21.7 g.) in C6H6 refluxed 2 hrs. with 6.0 g. BzCH2Br, filtered, concentrated to half-volume, refluxed 2 hrs. with 20 cc. MeI, filtered from 10.2 g. [MePPh3]I, and distilled gave 3.6 g. BzCH:CMeCO2Et, b0.4 160-5°; 2,4-dinitrophenylhydrazone, red, m. 149-50° (MeOH or AcOEt). [Ph3PCH2CH:CH2]Br (8.8 g.) converted to I, treated with 0.77 g. II, decanted from the oily precipitate, and evaporated, and the red oily product refluxed 2 hrs. with 50 cc. 2N NaOH in 1: 1 H2O-MeOH gave 0.32 g. MeCH:CHCO2H, m. 71°; dicyclohexylamine salt m. 127°. The oily salt from a similar run refluxed 20 hrs. with 0.71 cc. BzH and refluxed 20 hrs. and worked up in the usual manner yielded 0.25 g. PhCH:CHCH:CHCO2H, m. 136-40°. A similar run with 1.32 g. PhCH:CHCHO during 10 hrs. gave 0.57 g. Ph(CH:CH)3CO2H, m. 189-90° (becoming clear at 198°); also obtained in 50% yield from PH3P:CHCH:CHCO2Me with PhCH:CHCHO. Ph3P with p-O2NC6H4CH2Cl yields [p-O2NC6H4CH2PPh3]Cl which is converted by alkali to the deep red, stable p-O2NC6H4CH:PPh3. A 2% solution of p-O2NC6H4CH2Cl in C6H6 applied to filter paper, a few drops of the solution to be tested for Ph3P added, and the paper heated at 100-20° for a few min. and then treated with a drop of dilute aqueous NaOH gave a red color in the presence of Ph3P.

L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Relation between the antimicrobial action and chemical structure of aromatic fatty acid. XI
AN 1963:430451 CAPLUS
DN 59:30451

OREF 59:5535g-h
TI Relation between the antimicrobial action and chemical structure of aromatic fatty acid. XI
AU Takechi, Kazutake
CS Univ. Tokushima, Japan
SO Hakko Kogaku Zasshi (1961), 39, 534-41
CODEN: HKZAA2; ISSN: 0367-5963
DT Journal
LA Unavailable
AB cf. CA 58, 11721c. Phenylpentadienylidenemalonic acid, phenylhexatrienecarboxylic acid, and pentachlorocinnamic acid (I) were prepared and their antimicrobial activities against yeasts, molds, and bacteria studied. The increase both in the number of conjugated double bonds and in that of C atoms of a fatty acid group attached to the phenyl radical enhanced the strength of antimicrobial action. As was reported previously (CA 55, 10374i) a monobasic acid was more effective than a dibasic acid. The activity of I was especially marked against all microorganisms studied.

L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Light absorption and double bonds
AN 1934:25254 CAPLUS
DN 28:25254
OREF 28:2999e-i,3000a-c
TI Light absorption and double bonds
AU Hausser, K. W.
SO Zeitschrift fuer Technische Physik (1934), 15, 10-20
CODEN: ZTPHAU; ISSN: 0373-0093
DT Journal
LA Unavailable
GI For diagram(s), see printed CA Issue.
AB The absorption spectra of compds. containing conjugated double bonds are given for the region 750-200 mμ (mol. absorption coefficient plotted against frequency): Me(CH:CH)nCO2H(n = 1,2,3,4) in absolute alc. (and for n = 4 at -190° as well as at room temperature), Ph(CH:CH)nCO2H (n = 1,2,3), O-CH:CH·CH:C(CH:CH)nCO2H (n = 0,1,2,3,4), Ph(CH:CH)nPh (n = 1,2,3,4,5,6,7) in C6H6 at room temperature and at -190°, crocetin, carotene, lutein, zeaxanthin, physalien, taraxanthin, violaxanthin, methylbixin, lycopene and the indolenine dyes (n = 0,1,2,3). The fluorescence emission spectra of the diphenylpolyenes and the Raman spectra of Me(CH:CH)nCO2H (n = 1,2,3,4,5) and their mono-(n') and di-Me(n'') derivs. in EtOH, BuOH or CCl4 are also given. The strongest absorption band increases in intensity and is shifted to the longer wave lengths with increasing number of double bonds (n). The dependence of the position of the band on n is shown by the simple curve obtained by plotting the maximum frequency (corr. for solvent action) against n plus the color equivs. of the other chromophors in the compound (cf. C. A. 24, 343). Isolated double bonds appear to have no effect. All but the ionizable compds. (indolenine dyes, cyanidin chloride and polyenes in concentrated H2SO4) are of the same spectral type and show a cleavage of the band at the maximum which appears more clearly the larger n is, the lower the temperature, or the more sym. the mol. The fluorescence emission spectra are almost mirror images of the absorption spectra, but according to Stokes' law are displaced to the smaller frequencies. This frequency difference is brought about by the loss of energy by absorption and emission and by a solvent effect. The emission spectra of diphenyloctatetraene in various solvents are practically the same but the absorption spectra vary considerably. The cleavage in both emission and absorption is controlled by the frequency (about 1600 cm.-1) of the C double bond. This frequency is also obtained from the Raman spectra. The principle Raman lines are for n = 1, 1655; 2, 1644; 2', 1639; 3, 1618; 3', 1608; 3'', 1601; 4, 1599; 5, 1576 cm.-1. This decrease with increase of n shows that the conjugated double bonds form a simple system which acts as a whole optically as well

as chemical The intensity of the Raman lines increases strongly with increase in n for similar concns.

L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI 7-Phenylhaptatrienic acid
AN 1929:31251 CAPLUS
DN 23:31251
OREF 23:3688f-i,3689a-d
TI 7-Phenylhaptatrienic acid
AU Vorlander, D.; Daehn, Erich
SO Ber. (1929), 62B, 545-9
DT Journal
LA Unavailable
AB cf. preceding abstract The study of 7-phenylheptatrienic acid (1) was of interest from the point of view of the behavior of the 3 double bonds in addition reactions and of the question whether crystalline-liquid (c.-1.) properties are strengthened by lengthening the chain even without p-substitution. Unlike the aldehyde, I can be obtained pure and was shown to be enantiotropic c.-1. There is thus now available the series BzOH, PhCH:CHCO2H, PhCH:CHCH:CHCO2H and I in which the c.-1. properties increase with the lengthening of the chain and introduction of each further CH:CH group, although it does not establish whether the C:C groups act only spatially by lengthening the chain, or also energetically, or, which is most probable, cumulatively through several very different functions. The yield of phenylpentadienalmalonic acid was increased from 40 to 60% by using aic, NH3 instead of AcOH in the, condensation; it seps. from alc. in orange needles, m. about 191° (m. ps. corrected) with evolution of CO2 (Erlenmeyer and Engelberg, 190°; V., Fischer and Kunze, 210-2°). With 2 parts Ac2O at 120-30° it gives about 30% I, almost colorless or yellowish white, gives a yellow-brown color with H2SO4, m. 199° and 189-90° (E. and E., 187°). K, Na and NH4 salts, microcryst, ppts. I and its Na salt in H2O suspension are strikingly stable toward light, even ultra-violet, only a small part decomposing In CHCl3 I adds 3 mols. Br2 without appreciable evolution of HBr. Me ester, prepd, with MeOH and H2SO4, very faintly yellowish, m. 114°, non-c.-1., gives a brown color with H2SO4; Et ester, almost colorless, m. 91, non-c.-1, (a mixture of the Me and Et esters is likewise non-c.-1.), can be supercooled and then solidifies rhythmically with marked contraction; this crystalline-solid phase changes on standing into 2 crystalline-solid phases. Chloride, prepared with SOCl2, brownish mass. Anilide, dull yellow, m. 213°, forms 2 crystalline-solid phases, non-c.-1., gives a red-brown color with H2SO4. p-Toluide, pale yellow, m. 209°, faint monotropic c.-1. schlicren, gives a red-brown color with H2SO4. p-Aniside, yellow- green, dimorphous enantiotropic c.-1., m. 203-4° (presumably transition solid → c.-1.), gives a red-brown color with H2SO4. p-Phenclide, yellow-greenish, m. 210-1°, enantiotropic c.-1., then 3amorphous-liquid; like the aniside, on cooling there appear a 1st and a 2nd crystalline-liquid phase. With Na-Hg and CO2 in H2O on the H2O bath, I gives a di- or tetrahydro derivative, waxy leaflets, m. 64°, gives a brown color with H2SO4, reduces KMnO4, is non-c.-1., becomes yellowish and sticky after 2-3 days in the air and light. The C content lies between the values caled, for C13H14O2 and C13H16O2 and the H content is too low for the latter formula but titration with Br in CHCls points to a tetrahydro acid with only one C:C bond. There are no definite relations between the light and color phenomena under a quartz ultra-violet lamp and the degree of unsatn. of the compds. p-MeOC6H4CHBrCHBrCHBrCHBrCO2H shines with an unusually bright pink color, anisic acid glows at least as strongly as p-MeOC6H4CH:CHCO2H or the Me ester of I, but BzOH more weakly than PhCH:CHCO2H. The phenomenon changes with shifting of the double bond from p-MeOC6H4CH3CH:CHCH2CO2H (faintly luminous) to the α,β-unsatd.

isomer (strongly luminous) or on rearrangement of MeOC6H4CH:CHCH:CHCO2H (strongly luminous) into the allo-acid (weakly luminous). Complete hydrogenation usually, but apparently not always, decreases the luminescence. All the arylideneamines hitherto tested appear black in the light of the quartz Hg lamp, as does Et p-azoxycinnainate, whereas phenylhydrazones glow brightly and the anilides, anisides, etc., of the acids are more or less bright.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	18.74	30.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

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LOGINID:SSSPTA1623PAZ

PASSWORD:
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SESSION RESUMED IN FILE 'CAPLUS' AT 06:06:36 ON 13 APR 2006
FILE 'CAPLUS' ENTERED AT 06:06:36 ON 13 APR 2006
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.20	30.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.12	31.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

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STRUCTURE FILE UPDATES: 11 APR 2006 HIGHEST RN 880129-32-8
DICTIONARY FILE UPDATES: 11 APR 2006 HIGHEST RN 880129-32-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> e 6-Heptenoic acid, 3,5-dihydroxy-7-phenyl-, [R-[R*,S*-(E)]]-/cn
E1            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-(TRIBUTYLSTANNYL)-, BUTYL
                    ESTER, (3R,5R,6E)-/CN
E2            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-(TRIBUTYLSTANNYL)-, METHYL
                    ESTER/CN
E3            0 --> 6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, R-R*,S*-(E)-/
                    CN
E4            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, (R*,S*-(E))-/CN
E5            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, (R*,S*-(E))-(±
                    )-/CN
E6            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, (R-(R*,S*-(E)))-/
                    CN
E7            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, 1,1-DIMETHYLETHYL
                    ESTER/CN
E8            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, 1,1-DIMETHYLETHYL
                    ESTER, (3R,5S,6E)-/CN
E9            1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, 1,1-DIMETHYLETHYL
                    ESTER, (R*,S*)-/CN
E10           1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, 1,1-DIMETHYLETHYL
                    ESTER, (R*,S*)-(±)-/CN
E11           1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, 1,1-DIMETHYLETHYL
                    ESTER, (S-(R*,S*-(E)))-/CN
E12           1     6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, 4,7,7-TRIMETHYL-3
                    -(1-NAPHTHALENYL)BICYCLO(2.2.1)HEPT-2-YL ESTER/CN

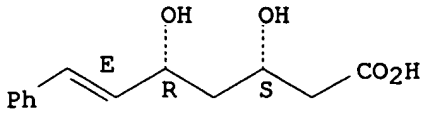
=> e4
L5            1 "6-HEPTENOIC ACID, 3,5-DIHYDROXY-7-PHENYL-, (R*,S*-(E))-"/CN

=> d l5

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   121308-01-8  REGISTRY
ED   Entered STN:  23 Jun 1989
CN   6-Heptenoic acid, 3,5-dihydroxy-7-phenyl-, [R*,S*-(E)]- (9CI)
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
```

CN 6-Heptenoic acid, 3,5-dihydroxy-7-phenyl-, [R*,S*-(E)]-(±)-
FS STEREOSEARCH
MF C13 H16 O4
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

Relative stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.10	38.49

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CA SUBSCRIBER PRICE	0.00	-4.50

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FILE COVERS 1907 - 13 Apr 2006 VOL 144 ISS 16
FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

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http://www.cas.org/infopolicy.html

=> l5
L6 1 L5

=> d l6 ti fbib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI QSAR study of the role of hydrophobicity in the activity of HMGR

inhibitors
AN 1989:417158 CAPLUS
DN 111:17158
TI QSAR study of the role of hydrophobicity in the activity of HMGR inhibitors
AU Prabhakar, Yenamadra S.; Saxena, Anil K.; Doss, M. Jinandra
CS Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, 226 001, India
SO Drug Design and Delivery (1989), 4(2), 97-108
CODEN: DDDEEJ; ISSN: 0884-2884
DT Journal
LA English
AB The 3-hydroxy-3-methylglutaryl-CoA reductase (HMGR) inhibitory activity of 7-(aryl/biphenyl)-6-heptenoic acids was quant. analyzed by using hydrophobicity, van der Waals volume, and electronic parameters. The activity was primarily a function of hydrophobicity, and was well correlated with the hydrophobicity of ortho and meta substituents on the aryl/biphenyl moiety. The electronic properties of para substituents on the aryl/biphenyl ring influenced the inhibition. Substituents with pos. polar and sigma and neg. resonance consts. might lead to better inhibition.

=> d l6 it

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
IT Substituent effect
(of aryl or biphenylheptenoates)
IT Hydrophobicity
(of aryl or biphenylheptenoates, hydroxymethylglutarylCoA reductase inhibition and structure in relation to)
IT Molecular structure-property relationship
(hydrophobicity, of aryl or biphenylheptenoates)
IT Molecular structure-biological activity relationship
(hydroxymethylglutaryl CoA reductase-inhibiting, of aryl or biphenylheptenoates)
IT Molecular structure-biological activity relationship
(quant., of aryl or biphenylheptenoates)
IT Molecular structure-property relationship
(resonance energy, of aryl or biphenylheptenoates)
IT Molar volume and Molecular volume
(van der Waals, of aryl or biphenylheptenoates, hydroxymethylglutarylCoA reductase inhibition and structure in relation to)
IT 7732-18-5
RL: BIOL (Biological study)
(hydrophobicity, of aryl or biphenylheptenoates, hydroxymethylglutarylCoA reductase inhibition and structure in relation to)
IT 108033-99-4 **121308-01-8** 121308-02-9 121308-03-0
121308-04-1 121308-05-2 121308-06-3 121308-07-4 121308-08-5
121308-09-6 121308-10-9 121308-11-0 121308-12-1 121308-13-2
121308-14-3 121308-15-4 121308-16-5 121308-17-6 121308-18-7
121308-19-8 121308-20-1 121308-21-2 121308-22-3 121308-23-4
121308-24-5 121308-25-6 121308-26-7 121308-27-8 121308-28-9
121308-29-0 121308-30-3 121308-31-4 121308-32-5 121308-33-6
121308-34-7 121308-35-8 121308-36-9 121308-37-0 121308-38-1
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121308-44-9 121308-45-0 121308-46-1 121308-47-2 121308-48-3
121308-49-4 121308-50-7 121308-51-8 121308-52-9 121308-53-0
121308-54-1 121308-55-2 121308-56-3 121308-57-4 121308-58-5
121308-59-6 121308-60-9 121308-61-0 121308-62-1 121308-63-2
121308-64-3 121308-65-4 121308-66-5 121308-67-6 121308-68-7
121308-69-8 121308-70-1 121308-71-2 121308-72-3 121308-73-4

121308-74-5 121322-31-4 121322-32-5 121322-33-6 121322-34-7
121322-35-8 121322-36-9 121322-37-0 121322-38-1 121328-10-7
123783-51-7
RL: BIOL (Biological study)
(hydroxymethylglutarylCoA reductase inhibition by, structure in relation to)

IT 9028-35-7, 3-Hydroxy-3-methylglutarylcoenzyme A reductase
RL: PROC (Process)
(inhibition of, by aryl or biphenylheptenoates, structure in relation to)

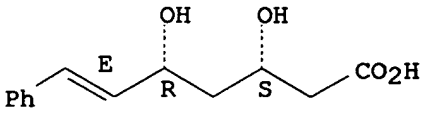
=> 121308-01-8
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L8 1 L7

=> display hitstr
ENTER (L8), L# OR ?:l8
ENTER ANSWER NUMBER OR RANGE (1):1

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
IT **121308-01-8**
RL: BIOL (Biological study)
(hydroxymethylglutarylCoA reductase inhibition by, structure in relation to)
RN 121308-01-8 CAPLUS
CN 6-Heptenoic acid, 3,5-dihydroxy-7-phenyl-, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



=> logoff hold
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.98	57.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.25

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STN INTERNATIONAL SESSION SUSPENDED AT 06:22:53 ON 13 APR 2006

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FILE 'CAPLUS' ENTERED AT 06:44:40 ON 13 APR 2006
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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      13.98      57.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -5.25

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      14.44      57.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -5.25

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STRUCTURE FILE UPDATES:  11 APR 2006  HIGHEST RN 880129-32-8
DICTIONARY FILE UPDATES:  11 APR 2006  HIGHEST RN 880129-32-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*************************************************************
*                                                           *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                           *
*************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
```

on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

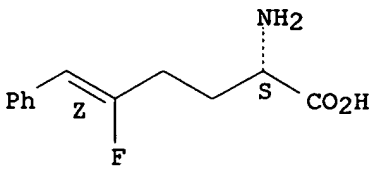
```
=> e 5-Hexenoic acid, 2-amino-5-fluoro-6-phenyl-, (2S,5Z)-/cn
E1            1     5-HEXENOIC ACID, 2-AMINO-5-CHLORO-4-HYDROXY-/CN
E2            1     5-HEXENOIC ACID, 2-AMINO-5-FLUORO-6-PHENYL-, (2R,5Z)-/CN
E3            1 --> 5-HEXENOIC ACID, 2-AMINO-5-FLUORO-6-PHENYL-, (2S,5Z)-/CN
E4            1     5-HEXENOIC ACID, 2-AMINO-5-METHYL-, (S)-/CN
E5            1     5-HEXENOIC ACID, 2-AMINO-5-METHYL-, METHYL ESTER/CN
E6            1     5-HEXENOIC ACID, 2-AMINO-5-METHYL-4-METHYLENE-/CN
E7            1     5-HEXENOIC ACID, 2-AMINO-5-METHYL-4-METHYLENE-, METHYL ESTER
                    /CN
E8            1     5-HEXENOIC ACID, 2-AMINO-6,6-DICHLORO-4-METHYL-, (2S,4S)-/CN
E9            1     5-HEXENOIC ACID, 2-AMINO-6-BORONO-, (2S,5E)-/CN
E10           1     5-HEXENOIC ACID, 2-AMINO-6-PHENYL-, (2S)-/CN
E11           1     5-HEXENOIC ACID, 2-AZIDO-4,5-DIMETHYL-, METHYL ESTER, (R*,R*
                    )-/CN
E12           1     5-HEXENOIC ACID, 2-AZIDO-4-METHYL-, METHYL ESTER, (R*,R*)-/C
                    N

=> e3
L9            1 "5-HEXENOIC ACID, 2-AMINO-5-FLUORO-6-PHENYL-, (2S,5Z)-"/CN

=> d l9

L9   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   219924-46-6  REGISTRY
ED   Entered STN:  23 Feb 1999
CN   5-Hexenoic acid, 2-amino-5-fluoro-6-phenyl-, (2S,5Z)- (9CI)  (CA
     INDEX NAME)
FS   STEREOSEARCH
MF   C12 H14 F N O2
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT

Absolute stereochemistry.
Double bond geometry as shown.
```

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              2 REFERENCES IN FILE CA (1907 TO DATE)
              2 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     7.10      64.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.25
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COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 7.92 | 8.13

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:11:32 ON 13 APR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:18:08 ON 13 APR 2006
FILE 'REGISTRY' ENTERED AT 10:18:08 ON 13 APR 2006
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COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 7.92 | 8.13

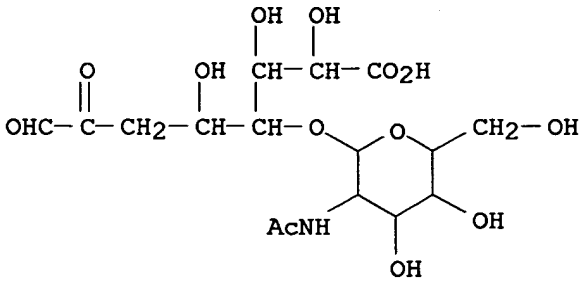
=> d his

(FILE 'HOME' ENTERED AT 09:54:46 ON 13 APR 2006)

FILE 'REGISTRY' ENTERED AT 09:54:52 ON 13 APR 2006
L1 STRUCTURE UPLOADED
L2 4 SEARCH L1 SSS SAM
E 2-CYANO-2,4,6-HEPTATRIENOIC ACID/CN
E HEPTATRIENOIC ACID/CN
E 7-PHENYL- 2-CYANO-2,4,6-HEPTATRIENOIC ACID/CN
E 7-PHENYL- 2-CYANOLOGOFF HOLD-2,4,6-HEPTATRIENOIC ACID/CN

=> d scan l2

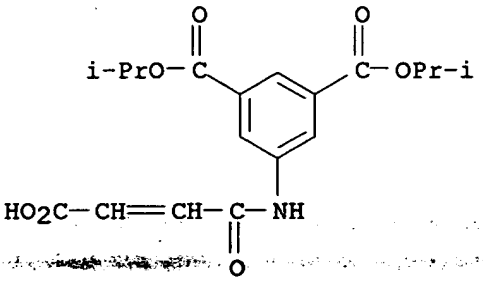
L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN D-arabino-2-Octulosuronic acid, 5-O-[2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]-3-deoxy-, (4ξ)- (9CI)
MF C16 H25 N O13



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

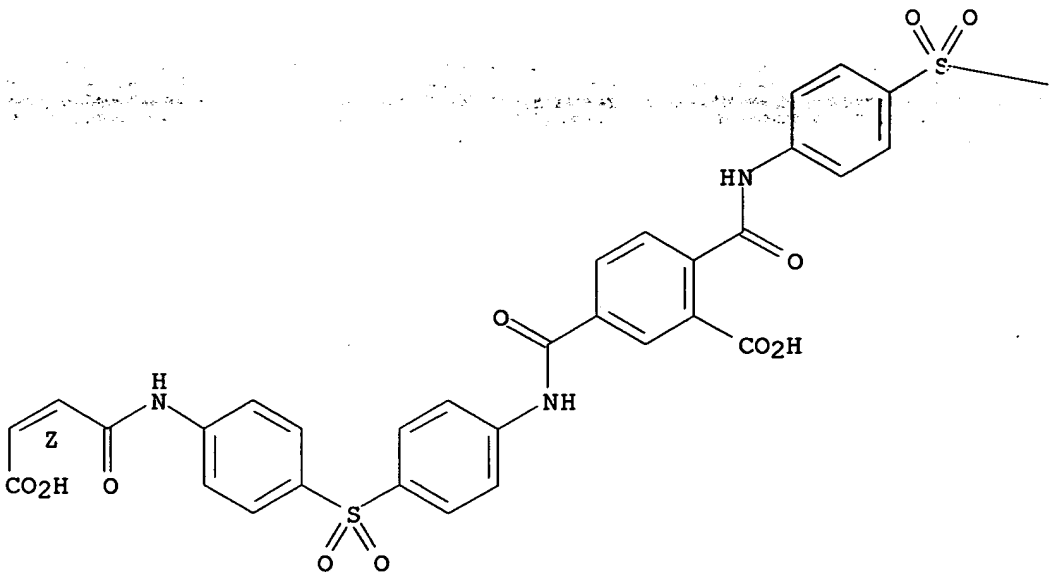
L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1,3-Benzenedicarboxylic acid, 5-[(3-carboxy-1-oxo-2-propenyl)amino]-, 1,3-bis(1-methylethyl) ester (9CI)
MF C18 H21 N O7

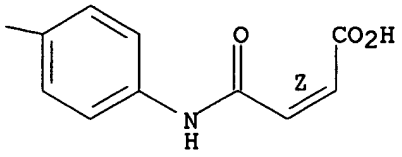


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Benzoic acid, 2,5-bis[[[4-[[4-[(3-carboxy-1-oxo-2-propenyl)amino]phenyl]sulfonyl]phenyl]amino]carbonyl]-, (Z,Z)- (9CI)
MF C41 H30 N4 O14 S2

Double bond geometry as shown.

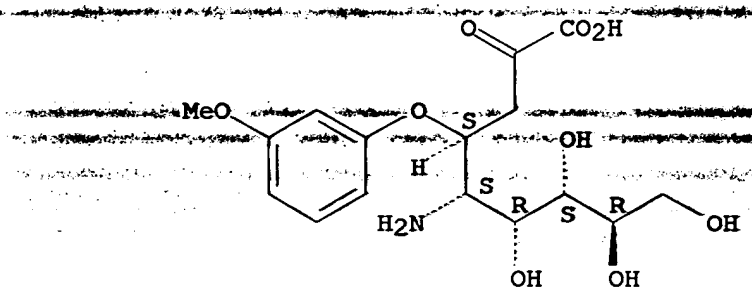




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Neuraminic acid, 4-O-(3-methoxyphenyl)- (9CI)
MF C16 H23 N O9

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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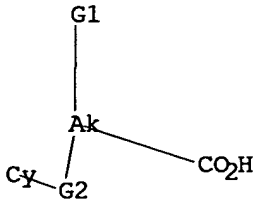
L1 STR



G1 O,N
G2 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.24	9.45

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:20:01 ON 13 APR 2006

FILE 'CAPLUS' ENTERED AT 06:45:22 ON 13 APR 2006
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FILE COVERS 1907 - 13 Apr 2006 VOL 144 ISS 16
FILE LAST UPDATED: 11 Apr 2006 (20060411/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

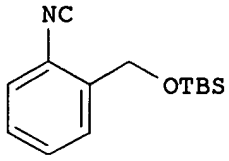
=> 19
L10 2 L9

=> d l10 1-2 ti fbib abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Enhanced Diastereoselectivity in the Asymmetric Ugi Reaction Using a New "Convertible" Isonitrile. [Erratum to document cited in CA130:125373]
AN 1999:624076 CAPLUS
DN 132:12484
TI Enhanced Diastereoselectivity in the Asymmetric Ugi Reaction Using a New "Convertible" Isonitrile. [Erratum to document cited in CA130:125373]
AU Linderman, Russell J.; Binet, Sophie; Petrich, Samantha R.
CS Dept. Chem., North Carolina State Univ., Raleigh, NC, 27695-8204, USA
SO Journal of Organic Chemistry (1999), 64(21), 8058
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB On page 337, R for compds. 8b, 10b, and 11b in Table 1 and Scheme 3 should be CH2CH(CH3)2 rather than CH(CH3)2. The diastereoselectivities reported using isonitrile 1 with the arabinosyl auxiliary 9 are not significantly enhanced relative to those reported by Kunz and coworkers (reference 5b) using tert-Bu isocyanide at -78 °C. In addition, Kunz and Pfrengle (J. Am. Chemical Society 1988, 110, 651-652 and reference 5a) report an example of an asym.
Ugi reaction using phenylisonitrile that resulted in a 94:6 dr.

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Enhanced Diastereoselectivity in the Asymmetric Ugi Reaction Using a New "Convertible" Isonitrile
AN 1999:3600 CAPLUS
DN 130:125373
TI Enhanced Diastereoselectivity in the Asymmetric Ugi Reaction Using a New "Convertible" Isonitrile
AU Linderman, Russell J.; Binet, Sophie; Petrich, Samantha R.
CS Department of Chemistry, North Carolina State University, Raleigh, NC, 27695-8204, USA
SO Journal of Organic Chemistry (1999), 64(2), 336-337

CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 130:125373
GI



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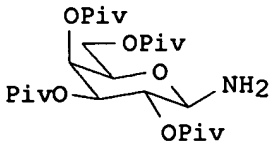
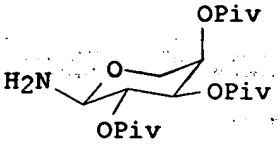
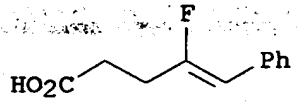


II



III



IV

AB The authors report a new "convertible" isonitrile (I) which not only provides a means for milder hydrolysis of the amide product form a Ugi multicomponent condensation reaction, but results in improved diastereoselectivities of both (R)- and (S)-amino acids via the asym. Ugi reaction using the galactosylamine and arabinosylamine chiral auxiliaries II and III (Piv = Me3CCO) developed by H. Kunz, et al.; (1988, 1989). Thus, Ugi condensation of I with aldehyde PhCH:CFCH2CH2CHO, galactosylamine auxiliary II, and HCHO in the presence of ZnCl2 gave 65% of the corresponding adduct, which was treated with 2N HCl at 60° for 24 h to give 75% amino acid IV via desilylation, an amide to ester intramol. exchange, and hydrolysis.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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PASSWORD:
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                   USPAT2
 NEWS  4  JAN 13   IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
 NEWS  5  JAN 13   New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                   INPADOC
 NEWS  6  JAN 17   Pre-1988 INPI data added to MARPAT
 NEWS  7  JAN 17   IPC 8 in the WPI family of databases including WPIFV
 NEWS  8  JAN 30   Saved answer limit increased
 NEWS  9  FEB 21   STN AnaVist, Version 1.1, lets you share your STN AnaVist
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 NEWS 10  FEB 22   The IPC thesaurus added to additional patent databases on STN
 NEWS 11  FEB 22   Updates in EPFULL; IPC 8 enhancements added
 NEWS 12  FEB 27   New STN AnaVist pricing effective March 1, 2006
 NEWS 13  FEB 28   MEDLINE/LMEDLINE reload improves functionality
 NEWS 14  FEB 28   TOXCENTER reloaded with enhancements
 NEWS 15  FEB 28   REGISTRY/ZREGISTRY enhanced with more experimental spectral
                   property data
 NEWS 16  MAR 01   INSPEC reloaded and enhanced
 NEWS 17  MAR 03   Updates in PATDPA; addition of IPC 8 data without attributes
 NEWS 18  MAR 08   X.25 communication option no longer available after June 2006
 NEWS 19  MAR 22   EMBASE is now updated on a daily basis
 NEWS 20  APR 03   New IPC 8 fields and IPC thesaurus added to PATDPAFULL
 NEWS 21  APR 03   Bibliographic data updates resume; new IPC 8 fields and IPC
                   thesaurus added in PCTFULL
 NEWS 22  APR 04   STN AnaVist $500 visualization usage credit offered
 NEWS 23  APR 12   LINSPEC, learning database for INSPEC, reloaded and enhanced
 NEWS 24  APR 12   Improved structure highlighting in FQHIT and QHIT display
                   in MARPAT
 NEWS 25  APR 12   Derwent World Patents Index to be reloaded and enhanced during
                   second quarter; strategies may be affected

 NEWS EXPRESS  FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
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FILE 'HOME' ENTERED AT 08:32:53 ON 13 APR 2006

=> FIL STNGUIDE
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  7, 2006 (20060407/UP).

=> DIS SAVED
NAME             CREATED      NOTES/TITLE
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BRDRGENUS/A      TEMP         63 ANSWERS IN FILE CAPLUS
CARBAMFINDS/A    TEMP         2 ANSWERS IN FILE CAPLUS
GENEFINDS/A      TEMP         22 ANSWERS IN FILE REGISTRY
IPROCTANOICS/A   TEMP         13 ANSWERS IN FILE CAPLUS
RAWCARBAMS/A     TEMP         78 ANSWERS IN FILE REGISTRY
RAWCHUCKFNDS/A   TEMP         168 ANSWERS IN FILE REGISTRY
TWOAMINOPOLY/Q   16 APR 2001  UPLOADED STRUCTURE

=> DIS SAVED/S
NO SAVED SDI REQUESTS

=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               0.06       0.27

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              AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
              V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
              http://download.cas.org/express/v8.0-Discover/

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FILE 'HOME' ENTERED AT 09:54:46 ON 13 APR 2006

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

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Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10025947\10025947 clm 102.str
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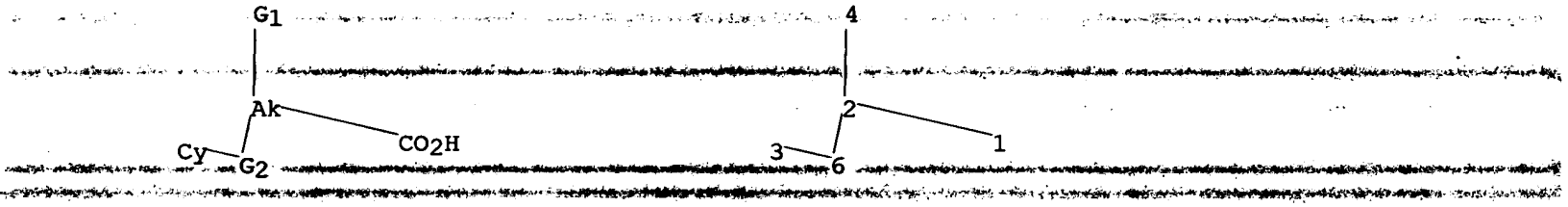


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chain nodes :
1  2  3  4  6
chain bonds :
1-2  2-4  2-6  3-6
exact/norm bonds :
1-2  2-4  2-6  3-6


G1:O,N

G2:O,S,N

Match level :
1:CLASS  2:CLASS  3:Atom  4:CLASS  6:CLASS
Generic attributes :
2:
Type of chain          : Linear
Saturation             : Unsaturated

Element Count :
Node 2: Limited
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L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
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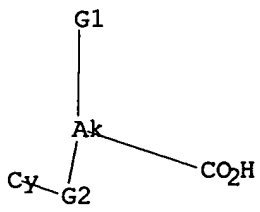
L1 STR



G1 O,N

G2 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 09:59:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 149950 TO ITERATE

1.3% PROCESSED 2000 ITERATIONS (2 INCOMPLETE) 4 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

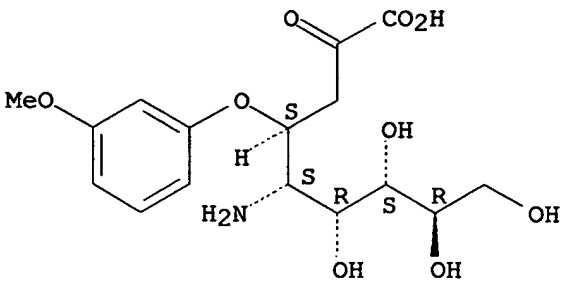
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 2976177 TO 3021823
PROJECTED ANSWERS: 4959 TO 7037

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Neuraminic acid, 4-O-(3-methoxyphenyl)- (9CI)
MF C16 H23 N O9

Absolute stereochemistry.



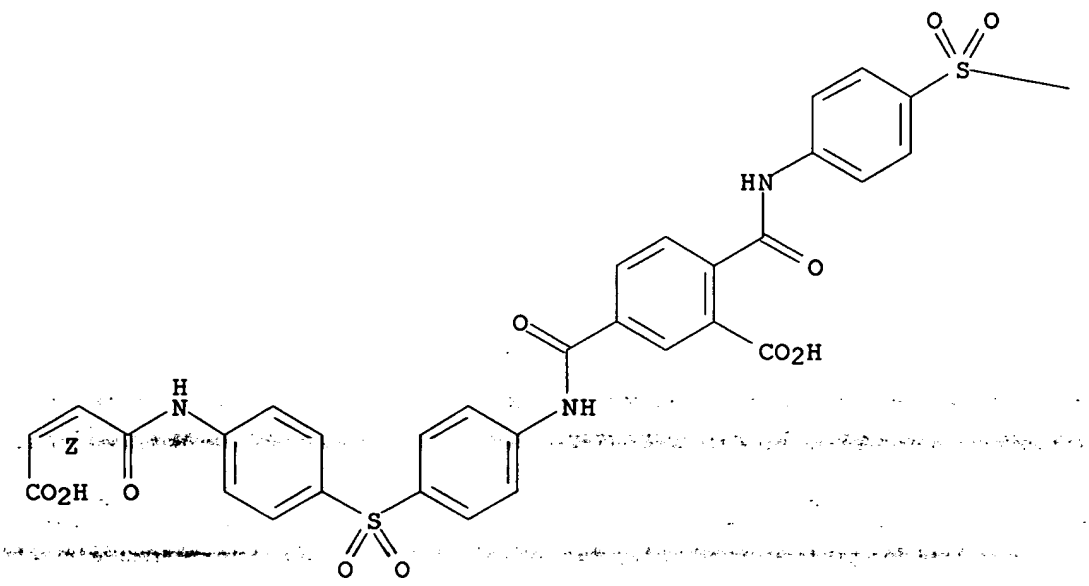
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

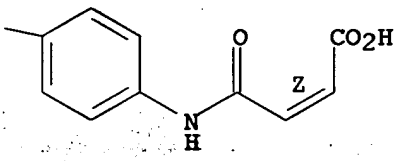
L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Benzoic acid, 2,5-bis[[[4-[[4-[(3-carboxy-1-oxo-2-propenyl)amino]phenyl]sulfonyl]phenyl]amino]carbonyl]-, (Z,Z)- (9CI)
MF C41 H30 N4 O14 S2

Double bond geometry as shown.

PAGE 1-A

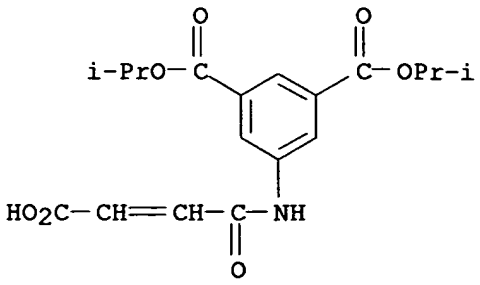


PAGE 1-B



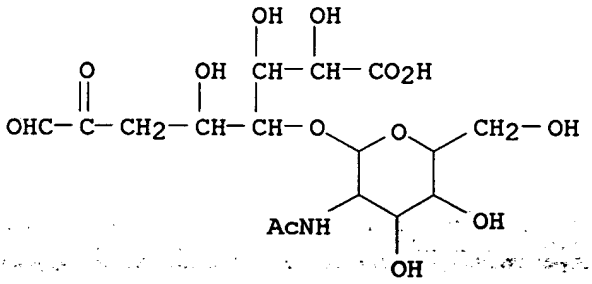
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1,3-Benzenedicarboxylic acid, 5-[(3-carboxy-1-oxo-2-propenyl)amino]-, 1,3-bis(1-methylethyl) ester (9CI)
MF C18 H21 N O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN D-arabino-2-Octulosuronic acid, 5-O-[2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]-3-deoxy-, (4ξ)- (9CI)
MF C16 H25 N O13



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold
COST IN U.S. DOLLARS SINCE FILE ENTRY 4.84 TOTAL SESSION 5.05
FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:01:17 ON 13 APR 2006

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:07:36 ON 13 APR 2006
FILE 'REGISTRY' ENTERED AT 10:07:36 ON 13 APR 2006
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COST IN U.S. DOLLARS SINCE FILE ENTRY 4.84 TOTAL SESSION 5.05
FULL ESTIMATED COST

=> e 2-cyano-2,4,6-heptatrienoic acid/cn
E1 1 2-CYANO-2,3-DIMETHYLNONANOIC ACID 4-HYDROXYPHENYL ESTER/CN
E2 1 2-CYANO-2,3-DIMETHYLNONANOIC ACID ETHYL ESTER/CN
E3 0 --> 2-CYANO-2,4,6-HEPTATRIENOIC ACID/CN
E4 1 2-CYANO-2,4-DIMETHYL-4-CYCLOPENTENE-1,3-DIONE/CN
E5 1 2-CYANO-2,4-DIMETHYL-5-P-METHOXYPHENYL-4-CYCLOPENTENE-1,3-DIONE/CN

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E6              1      2-CYANO-2,4-DIMETHYL-5-P-NITROPHENYL-4-CYCLOPENTENE-1,3-DION
                       E/CN
E7              1      2-CYANO-2,4-DIMETHYL-5-PHENYL-4-CYCLOPENTENE-1,3-DIONE/CN
E8              1      2-CYANO-2,4-DIPHENYL-4-CYCLOPENTENE-1,3-DIONE/CN
E9              1      2-CYANO-2-((2-METHYLPHENYL)AZO)ACETAMIDE/CN
E10             1      2-CYANO-2-((2-METHYLPHENYL)HYDRAZONO)ACETAMIDE/CN
E11             1      2-CYANO-2-((3-METHYLPHENYL)AZO)ACETAMIDE/CN
E12             1      2-CYANO-2-((3-METHYLPHENYL)HYDRAZONO)ACETAMIDE/CN

=> e heptatrienoic acid/cn
E1              1      HEPTATRIENE, METHYL-/CN
E2              1      HEPTATRIENE, METHYL-, HOMOPOLYMER/CN
E3              0 --> HEPTATRIENOIC ACID/CN
E4              1      HEPTATRIENONE/CN
E5              1      HEPTATRIENYL ANION/CN
E6              1      HEPTATRIENYL TRIANION/CN
E7              1      HEPTATRIENYLIUM/CN
E8              1      HEPTATRIENYLIUM, 1,1'-(OXYDI-4,1-PHENYLENE)BIS(7-(4-METHOXYP
                       HENYL)-/CN
E9              1      HEPTATRIENYLIUM, 1,1'-(OXYDI-4,1-PHENYLENE)BIS(7-(4-METHOXYP
                       HENYL)-, SULFATE (1:2)/CN
E10             1      HEPTATRIENYLIUM, 1,1,7,7-TETRAKIS(4-(DIBUTYLAMINO)PHENYL)-/C
                       N
E11             1      HEPTATRIENYLIUM, 1,1,7,7-TETRAKIS(4-(DIBUTYLAMINO)PHENYL)-,
                       CHLORIDE/CN
E12             1      HEPTATRIENYLIUM, 1,1,7,7-TETRAKIS(4-(DIETHYLAMINO)-2,6-DIMET
                       HOXYPHENYL)-/CN

=>
=> e 7-phenyl- 2-cyano-2,4,6-heptatrienoic acid/cn
E1              1      7-PHENOXYSULFONYL-3-INDENECARBOXYLIC ACID/CN
E2              1      7-PHENOXYTRICYCLO(4.2.2.02,5)DEC-7-ENE-3,4,9,10-TETRACARBOXY
                       LIC DIANHYDRIDE/CN
E3              0 --> 7-PHENYL- 2-CYANO-2,4,6-HEPTATRIENOIC ACID/CN
E4              1      7-PHENYL-1,2,3,4-TETRAHYDROISOQUINOLINE/CN
E5              1      7-PHENYL-1,2,3,4-TETRAHYDROQUINOLINE/CN
E6              1      7-PHENYL-1,2,4-TRIAZOLO(4,3-B)PYRIDAZINE/CN
E7              1      7-PHENYL-1,2-NAPHTHALENEDICARBOXYLIC ANHYDRIDE/CN
E8              1      7-PHENYL-1,3,3-TRIMETHYLSPIRO(INDOLINE-2,3'-(3H)-NAPHTHO(2,1
                       -B)PYRAN)/CN
E9              1      7-PHENYL-1,3,5-CYCLOHEPTATRIENE/CN
E10             1      7-PHENYL-1,3-DIAZASPIRO(4.4)NONANE-2,4-DIONE/CN
E11             1      7-PHENYL-1,4,6-ANDROSTATRIENE-3,17-DIONE/CN
E12             1      7-PHENYL-1,6-DIAZABICYCLO(4.1.0)HEPTANE/CN

=> e 7-phenyl- 2-cyanologoff hold-2,4,6-heptatrienoic acid/cn
E1              1      7-PHENOXYSULFONYL-3-INDENECARBOXYLIC ACID/CN
E2              1      7-PHENOXYTRICYCLO(4.2.2.02,5)DEC-7-ENE-3,4,9,10-TETRACARBOXY
                       LIC DIANHYDRIDE/CN
E3              0 --> 7-PHENYL- 2-CYANOLOGOFF HOLD-2,4,6-HEPTATRIENOIC ACID/CN
E4              1      7-PHENYL-1,2,3,4-TETRAHYDROISOQUINOLINE/CN
E5              1      7-PHENYL-1,2,3,4-TETRAHYDROQUINOLINE/CN
E6              1      7-PHENYL-1,2,4-TRIAZOLO(4,3-B)PYRIDAZINE/CN
E7              1      7-PHENYL-1,2-NAPHTHALENEDICARBOXYLIC ANHYDRIDE/CN
E8              1      7-PHENYL-1,3,3-TRIMETHYLSPIRO(INDOLINE-2,3'-(3H)-NAPHTHO(2,1
                       -B)PYRAN)/CN
E9              1      7-PHENYL-1,3,5-CYCLOHEPTATRIENE/CN
E10             1      7-PHENYL-1,3-DIAZASPIRO(4.4)NONANE-2,4-DIONE/CN
E11             1      7-PHENYL-1,4,6-ANDROSTATRIENE-3,17-DIONE/CN
E12             1      7-PHENYL-1,6-DIAZABICYCLO(4.1.0)HEPTANE/CN

=> logoff hold
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